2026

MOTUS

HYDRAULIC HOSES AND COMPONENTS



MOTUS® KEEP YOU MOVING

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MOTUSCOAT™

MotusCoat™ is a high-performance protective coating system developed by Motus Hydraulics for use across hydraulic fittings, adaptors and components.

Engineered for harsh working environments, MotusCoat™ delivers advanced corrosion resistance, improved durability, and long-term reliability in demanding applications.

Designed to outperform conventional coatings, it provides consistent protection across hydraulic systems exposed to moisture, chemicals and temperature variation.



What is MotusCoat™?

MotusCoat™ is a specialised coating system designed to protect steel hydraulic components from corrosion, wear and environmental exposure.

By combining advanced barrier protection with sacrificial performance, it significantly extends service life in demanding conditions.

MotusCoat™ is Cr(VI)-free and meets modern environmental and performance standards.

In controlled testing, MotusCoat™ achieves up to 1,500 hours resistance to red rust, depending on specification and application.

Why MotusCoat™?

Hydraulic components are regularly exposed to moisture, chemicals, salt and temperature variation. Standard coatings can deteriorate quickly under these conditions.

MotusCoat™ is engineered to maintain performance over time, reducing maintenance, improving reliability and extending component life.

It is well suited to applications where steel components interface with other materials, helping minimise the effects of galvanic corrosion.

MotusCoat™ is built for demanding industrial, agricultural, marine and mobile hydraulic environments.

MotusCoat™
Key Advantages



Superior Corrosion Resistance

Provides significantly greater corrosion protection than conventional coatings used on hydraulic components.

Improved Wear & Hardness

Enhanced surface hardness improves resistance to abrasion during installation and use.

Thermal Stability

Maintains protective performance across a wide operating temperature range.

Sacrificial and Barrier Protection

Combines active protection with a durable barrier layer for long-term performance.

Reduced Galvanic Corrosion

Suitable for assemblies involving mixed materials, helping reduce corrosion between dissimilar metals.

Designed for Harsh Environments

Engineered for agricultural, marine and mobile hydraulic applications.

Motus Application

MotusCoat™ is applied across selected ranges of hydraulic hose fittings, adaptors and connectors, cartridge components and steel hydraulic hardware, delivering consistent protection across hydraulic systems.

01


MOTUS MH204 1/4" EN 857 2SC / SAE 100R2 W.P. 400 BAR / 5802 PSI 1026®
MOTUS MH204 1/4" EN 857 2SC / SAE 100R2 W.P. 400 BAR / 58
4" SAE 100R7 THERMOPLASTIC W.P. 210 BAR / 3045 PS
MH704 1/4" SAE 100R7 THERMOPLASTIC
026 48 MOTUS
EN 857 2SC / SAE 100R2 W.P. 400



HOSE & HOSE PROTECTION

Hydraulic hose assemblies form the foundation of fluid power systems. This section includes a comprehensive range of hydraulic hose types suitable for low, medium and high-pressure applications, along with protective solutions designed to extend service life in demanding environments.

Braided and spiral hose constructions are supported by abrasion sleeves, guards and protective wraps. These products are widely used across agricultural machinery, construction equipment, industrial systems, transport and mobile hydraulics where durability, flexibility and pressure integrity are critical.

HOSE & HOSE PROTECTION

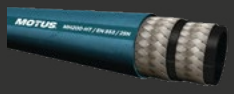
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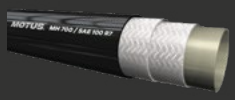


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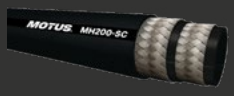
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MH100 (1SC)

HD hose in compact design



Application:	Medium pressure circuits with restricted installation spaces, Pre-control hoses, Return hoses
Special features:	Narrow bending radius
Standard:	EN 857 1 SC
Inner layer:	Oil resistant synthetic rubber
Insert:	One high tensile steel wire braided insert
Outer layer:	Oil resistant and weatherproof synthetic rubber
Colour:	Black
Temp. min:	-40 °C
Temp. max:	100 °C
Elongation:	+2 % to -4 %
Media:	Mineral oil, Polyglycol based oil, Water (0 °C to +70 °C), Water-oil emulsions

Note: The change in length of the hose is determined at max. working pressure during testing to EN ISO 1402.

Identification	DN*	Size	Inches	Internal Ø min. mm	Internal Ø max. mm	Ø Insert min. mm	Ø Insert max. mm	External Ø max. mm	Working pressure bar	Test pressure bar	Burst pressure bar	Min. bending radius mm
MH104	6	4	1/4″	6.1	6.9	9.6	10.8	13.5	225	450	900	75
MH105	8	5	5/16″	7.7	8.5	10.9	12.1	14.5	215	430	860	85
MH106	10	6	3/8″	9.3	10.1	12.7	14.5	16.9	180	360	720	90
MH108	12	8	1/2″	12.3	13.5	15.9	18.1	20.4	160	320	640	130
MH110	16	10	5/8″	15.5	16.7	19.8	21.0	23.0	130	260	520	150
MH112	19	12	3/4″	18.6	19.8	23.2	24.4	26.7	105	210	420	180
MH116	25	16	1″	25.0	26.4	30.7	31.9	34.9	88	176	352	230

DN = Nominal diameter, nominal width

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MH100 P

HD hose, compact, Pilot



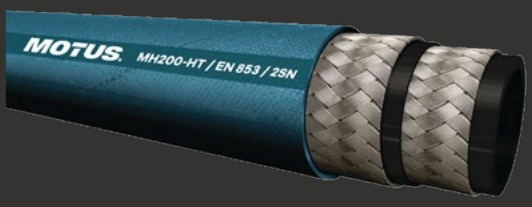
Application:	Medium pressure circuits with restricted installation spaces, Pre-control hoses, Return hoses
Special features:	Narrow bending radius, kink resistant
Inner layer:	Oil resistant synthetic rubber
Insert:	One high tensile steel wire braided insert
Outer layer:	Environmentally safe synthetic rubber
Colour:	Black
Temp. min:	-40 °C
Temp. max:	100 °C
Media:	Mineral oil, Polyglycol based oil, Water (0 °C to +70 °C), Water-oil emulsions

Identification	DN*	Size	Inches	Internal Ø mm	External Ø mm	Working pressure bar	Burst pressure bar	Min. bending radius mm
MH104P	6	4	1/4″	6.4	11.5	120	480	25
MH105P	8	5	5/16″	7.9	13.1	120	480	30
MH106P	10	6	3/8″	9.5	14.8	100	400	40
MH108P	12	8	1/2″	12.7	18.0	100	400	50

DN = Nominal diameter, nominal width

MH200-HT (2SN)

HD hose, high thermal resistance



Application:	Low and medium pressure circuits with extreme temperatures (e.g. foundries, compressors), Hydraulics in mechanical engineering
Special features:	Outstanding ozone, weather, UV and temperature resistance
Standard:	EN 853 2 SN
Inner layer:	Oil resistant synthetic rubber
Insert:	Two high tensile steel wire braided inserts
Outer layer:	Synthetic rubber with high temperature, ozone and weather resistance
Colour:	Blue
Temp. min:	-55 °C
Temp. max:	135 °C
Elongation:	+2 % to -4 %
Media:	Mineral oil, Gear oil, Glycol and polyglycol, Air-oil vapour, Water-oil emulsion (0 °C to +100 °C)

Note: The change in length of the hose is determined at max. working pressure during testing to EN ISO 1402.
Operation with compressed air requires a perforated outer cover.

Identification	DN*	Size	Inches	Internal Ø min. mm	Internal Ø max. mm	Ø Insert min. mm	Ø Insert max. mm	External Ø max. mm	Working pressure bar	Test pressure bar	Burst pressure bar	Min. bending radius mm
MH204-HT	6	4	1/4″	6.2	7.0	12.1	13.3	15.7	400	800	1600	100
MH205-HT	8	5	5/16″	7.7	8.5	13.7	14.9	17.3	350	700	1400	115
MH206-HT	10	6	3/8″	9.3	10.1	16.1	17.3	19.7	330	660	1320	130
MH208-HT	12	8	1/2″	12.3	13.5	19.0	20.6	23.0	275	550	1100	180
MH210-HT	16	10	5/8″	15.5	16.7	22.2	23.8	26.2	250	500	1000	200
MH212-HT	19	12	3/4″	18.6	19.8	26.2	27.8	30.1	215	430	850	240
MH216-HT	25	16	1″	25.0	26.4	34.1	35.7	38.9	165	325	650	300
MH220-HT	31	20	1.1/4″	31.4	33.0	43.3	45.7	49.5	125	250	500	420

DN = Nominal diameter, nominal width

MH200 (2SC)

HD hose in compact design



Application:	Medium pressure circuits with restricted installation spaces
Special features:	Narrow bending radius
Standard:	EN 857 2 SC
Inner layer:	Oil resistant synthetic rubber
Insert:	Two high tensile steel wire braided inserts
Outer layer:	Oil resistant and weatherproof synthetic rubber
Colour:	Black
Temp. min:	-40 °C
Temp. max:	100 °C
Elongation:	+2 % to -4 %
Media:	Mineral oil, Polyglycol based oil, Water (0 °C to +70 °C), Water-oil emulsions

Note: The change in length of the hose is determined at max. working pressure during testing to EN ISO 1402.

Identification	DN*	Size	Inches	Internal Ø min. mm	Internal Ø max. mm	Ø Insert min. mm	Ø Insert max. mm	External Ø max. mm	Working pressure bar	Test pressure bar	Burst pressure bar	Min. bending radius mm
MH204	6	4	1/4″	6.1	6.9	10.6	11.7	14.2	400	800	1600	75
MH205	8	5	5/16″	7.7	8.5	12.1	13.3	16.0	350	700	1400	85
MH206	10	6	3/8″	9.3	10.1	14.4	15.6	18.3	330	660	1320	90
MH208	12	8	1/2″	12.3	13.5	17.5	19.1	21.5	275	550	1100	130
MH210	16	10	5/8″	15.5	16.7	20.5	22.3	24.7	250	500	1000	170
MH212	19	12	3/4″	18.6	19.8	24.6	26.4	28.6	215	430	860	200
MH216	25	16	1″	25.0	26.4	32.5	34.3	36.6	165	330	660	250

DN = Nominal diameter, nominal width

MH400

Spiral hose, ISO 18752-CC



Inner tube:	Oil resistant, synthetic rubber
Reinforcement:	Four spirals of high-tensile steel wire
Cover:	Flame-retardant according to MSHA; synthetic rubber with high ozone, abrasion and weather resistance
Colour:	Black
Media:	Mineral oil; glycol; water-glycol emulsions; water (0 °C to +70 °C)
Special features:	Exceptionally flexible; small bend radius; abrasion and ozone resistant; weatherproof; 500,000 cycles impulse tested
Standard:	ISO 18752-CC
Temp. max:	121 °C
Temp. min:	-40 °C

Identification	DN	Inch	Size	Inside Ø mm	Test pressure bar	Weight per m kg	Working pressure bar	Outside Ø mm	Burst pressure bar	Bend radius min. mm
MH406	10	3/8″	6	9.9	890	0.7	445	20.2	1780	65
MH408	12	1/2″	8	13	840	0.85	420	22.9	1680	90
MH410	16	5/8″	10	16.4	840	1.04	420	26.5	1680	100
MH412	19	3/4″	12	19.5	760	1.43	380	30.5	1520	120
MH416	25	1″	16	26	700	2.2	350	37.9	1400	150
MH420	31	1.1/4″	20	32.5	700	2.58	350	45.9	1400	280

DN = Nominal diameter, nominal width

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MH500 (4SH)

HD hose



Application:	High pressure circuits
Standard:	EN 856 4 SH
Inner layer:	Oil resistant synthetic rubber
Insert:	Four high tensile steel wire spiral inserts
Outer layer:	Synthetic rubber with high temperature, ozone and abrasion resistance
Colour:	Black
Temp. min:	-40 °C
Temp. max:	100 °C
Elongation:	+2 % to -4 %
Media:	Mineral oil, Glycol, Water (0 °C to +70 °C), Water-oil emulsions

Note: The change in length of the hose is determined at max. working pressure during testing to EN ISO 1402.

Identification	DN*	Size	Inches	Internal Ø min. mm	Internal Ø max. mm	Ø Insert min. mm	Ø Insert max. mm	External Ø min. mm	External Ø max. mm	Working pressure bar	Test pressure bar	Burst pressure bar	Min. bending radius mm
MH512	19	12	3/4″	18.6	19.8	27.6	29.2	31.4	33.0	420	840	1680	280
MH516	25	16	1″	25.0	26.4	34.4	36.0	37.5	39.9	380	760	1520	340
MH520	31	20	1.1/4″	31.4	33.0	40.9	42.9	43.9	47.1	325	650	1300	460
MH524	38	24	1.1/2″	37.7	39.3	47.8	49.8	51.9	55.1	290	580	1160	560
MH532	51	32	2″	50.4	52.0	62.2	64.2	66.5	69.7	250	500	1000	700

DN = Nominal diameter, nominal width

MH800 (R15)

HD hose



Application:	High pressure circuits with high loads, hydrostatic gearboxes, Shipbuilding, Mining and opencast mining
Standard:	SAE 100 R 15
Inner layer:	Oil resistant synthetic rubber
Insert:	Four (up to NW 25) or six (from NW 32) high tensile steel wire spirals
Outer layer:	Synthetic rubber with high temperature, ozone and abrasion resistance
Colour:	Black
Temp. min:	-40 °C
Temp. max:	121 °C
Elongation:	+2 % to -2 %
Media:	Mineral oil, Glycol, Water (0 °C to +70 °C), Water-oil emulsions

Note: The change in length of the hose is determined at max. working pressure during testing to EN ISO 1402.

Identification	DN*	Size	Inches	Internal Ø mm	External Ø mm	Working pressure bar	Burst pressure bar	Min. bending radius mm
MH812	19	12	3/4″	19.0	32.0	420	1680	265
MH816	25	16	1″	25.4	38.2	420	1680	330
MH820	31	20	1.1/4″	31.8	50.4	420	1680	445
MH824	38	24	1.1/2″	38.1	57.3	420	1680	530
MH832	51	32	2″	50.8	71.5	420	1680	700

DN = Nominal diameter, nominal width

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MH600 (EASY - LOCK)

Low pressure hose with textile insert



Application:	Low pressure circuits (no pressure surge loads or critical applications), Return hoses, Pneumatic controllers
Standard:	EN 854 R6, SAE 100 R 6, DN 25 is not specified in the standard
Inner layer:	Oil resistant synthetic rubber
Insert:	One braided textile insert
Outer layer:	Oil resistant and weatherproof synthetic rubber
Colour:	Black
Temp. min:	-40 °C
Temp. max:	100 °C

Identification	DN*	Size	Inches	Internal Ø min. mm	Internal Ø max. mm	External Ø min. mm	External Ø max. mm	Working pressure bar	Test pressure bar	Burst pressure bar	Min. bending radius mm
MH604	6	4	1/4"	5.9	6.9	11.9	13.5	28	56	112	65
MH606	10	6	3/8"	9.0	10.0	15.1	16.7	28	56	112	80
MH608	12	8	1/2"	12.1	13.3	19.0	20.6	28	56	112	100
MH610	16	10	5/8"	15.3	16.5	22.2	23.8	24	48	96	125
MH612	19	12	3/4"	18.2	19.8	25.4	27.8	21	41	83	150
MH616	25	16	1"	24.6	26.2	32.5	34.9	13	26	52	197

DN = Nominal diameter, nominal width

MH900
Suction hose



Application:	Hose for suction and return lines with restricted installation space
Standard:	Similar to SAE 100 R4
Inner layer:	Oil resistant synthetic rubber
Insert:	Two high tensile textile inserts and one embedded spring steel spiral
Outer layer:	Synthetic rubber with high ozone, abrasion, and weather resistance
Colour:	Black
Temp. min:	-40 °C
Temp. max:	100 °C
Media:	Mineral oil, Water-glycol emulsions, water-oil emulsions

Note: The recommended flow velocity for media in suction hoses is a maximum 1m/s.

Identification	DN*	Size	Inches	Internal Ø mm	External Ø mm	Burst pressure bar	Min. bending radius mm
MH912	19	12	3/4"	19.0	29	63	40
MH916	25	16	1"	25.4	35	51	55
MH920	31	20	1.1/4"	32.0	42	42	70
MH924	38	24	1.1/2"	38.0	50	30	80
MH932	51	32	2"	50.8	62	30	100
MH940	63	40	2.1/2"	63.5	75	30	170
MH948	76	48	3"	76.2	88	30	225

DN = Nominal diameter, nominal width Burst pressure: Safety factor = 3: 1

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MH700 (R7)

Thermoplastic high pressure hose



Application:	Medium high pressure systems, Forklift trucks, Lubrication line
Special features:	High ozone and abrasion resistance, no swelling or brittleness when used with solvents or alkaline media, very good reverse bending fatigue strength, slight volumetric expansion
Standard:	SAE 100 R 7
Inner layer:	Polyester elastomer
Insert:	Two high tensile polyester braided inserts
Outer layer:	Polyurethane
Colour:	Black
Temp. min:	-40 °C
Temp. max:	93 °C
Elongation:	+3 % to -3 %
Media:	Mineral oil, ASTM1, ASTM3, Polyglycol based oil, Synthetic oils, Water (0 °C to +60 °C), Water-oil emulsions (up to 60 °C)

Note: The change in length of the hose is determined at max. working pressure during testing to EN ISO 1402.

Identification	DN*	Size	Inches	Internal Ø mm	External Ø mm	Working pressure bar	Burst pressure bar	Min. bending radius mm
MH703	5	3	3/16"	5	9.7	210	840	75
MH704	6	4	1/4"	6	12.1	215	860	100
MH705	8	5	5/16"	8	13.8	190	760	115
MH706	10	6	3/8"	10	16.1	160	640	125
MH708	12	8	1/2"	12	19.4	140	560	175

DN = Nominal diameter, nominal width

MH200-S

Braided hose, two-layer, exceeds EN857 2SC, higher working pressures



Inner Tube:	Oil resistant, synthetic rubber
Reinforcement:	Two high-tensile steel wire braids
Cover:	Oil resistant and weatherproof synthetic rubber
Application:	Medium pressure circuits with restricted installation spaces
Colour:	Black
Media:	Glycol Water-oil-emulsions Water (0 °C to +70 °C) Mineral oil
Special Features:	Impulse tested with up to 1 million cycles
Standard:	EXCEEDS EN 857 2SC EXCEEDS ISO 18752 BC
Temp. max.:	100 °C
Temp. min.:	-40 °C

Identification	DN*	Inch	Size	Inside Ø mm	Outside Ø mm	Working pressure bar	Test pressure bar	Burst pressure bar	Bend radius min. mm
MH204-S	6	1/4″	4	6.4	13.4	450	900	1800	45
MH205-S	8	5/16″	5	7.9	15	420	840	1680	60
MH206-S	10	3/8″	6	9.5	17.4	385	770	1540	70
MH208-S	12	1/2″	8	12.7	20.6	350	700	1400	90
MH210-S	16	5/8″	10	15.9	23.7	290	580	1160	130
MH212-S	19	3/4″	12	19	27.7	280	560	1120	160
MH216-S	25	1″	16	25.4	35.6	200	400	800	210
MH220-S	31	1.1/4″	20	32.5	43.3	175	350	700	300

DN = nominal diameter, nominal width

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MH100-S

Braided hose, single-layer, exceeds EN857 1SC, higher working pressures, smaller bend radius



Inner Tube:	Oil resistant, synthetic rubber
Reinforcement:	One high-tensile steel wire braid
Cover:	Oil resistant and weatherproof synthetic rubber Flame-retardant according to MSHA
Application:	Medium pressure circuits with restricted installation spaces
Colour:	Black
Media:	Glycol Water-oil-emulsions Water (0 °C to +70 °C) Mineral oil
Special Features:	Impulse tested with up to 1 million cycles
Standard:	EXCEEDS EN 857 1SC
Temp. max.:	100 °C
Temp. min.:	-40 °C

Identification	DN*	Inch	Size	Inside Ø mm	Outside Ø mm	Working pressure bar	Ø Reinforcement mm	Test pressure bar	Burst pressure bar	Bend radius min. mm
MH104-S	6	1/4″	4	6.6	12	290	10.1	580	1160	40
MH105-S	8	5/16″	5	8.3	13.6	250	11.4	500	1000	55
MH106-S	10	3/8″	6	9.9	15.9	230	13.6	460	920	65
MH108-S	12	1/2″	8	13	19.2	210	16.9	420	840	80
MH110-S	16	5/8″	10	16.4	22.3	150	20.3	300	600	105
MH112-S	19	3/4″	12	19.5	26.1	125	23.9	250	500	120
MH116-S	25	1″	16	26	33.1	110	31	220	440	160
MH120-S	31	1.1/4″	20	32.5	43.7	100	40.2	200	400	300

DN = nominal diameter, nominal width

MH200-RM

Braided hose, two-layer, EN857 2SC, higher abrasion resistance, higher working pressures, smaller bend radius



Inner Tube:	Oil resistant, synthetic rubber
Reinforcement:	Two high-tensile steel wire braids
Cover:	Flame-retardant according to MSHA Synthetic rubber with high ozone, abrasion, and weather resistance
Application:	Medium pressure circuits with restricted installation spaces
Colour:	Black
Media:	Glycol Water-oil-emulsions Water (0 °C to +70 °C) Mineral oil
Special Features:	Impulse tested with up to 1 million cycles
Standard:	EXCEEDS EN 857 2SC EXCEEDS ISO 18752 BC
Temp. max.:	100 °C
Temp. min.:	-40 °C

Identification	DN	Inch	Size	Inside Ø mm	Outside Ø mm	Working pressure bar	Test pressure bar	Burst pressure bar	Bend radius min. mm
MH204-RM	6	1/4"	4	6.4	13.4	450	900	1800	45
MH205-RM	8	5/16"	5	7.9	15	420	840	1680	60
MH206-RM	10	3/8"	6	9.5	17.4	385	770	1540	70
MH208-RM	12	1/2"	8	12.7	20.6	350	700	1400	90
MH210-RM	16	5/8"	10	15.9	23.7	290	580	1160	130
MH212-RM	19	3/4"	12	19	27.7	280	560	1120	160
MH216-RM	25	1"	16	25.4	35.6	200	400	800	210

DN = nominal diameter, nominal width

MH100-SC

Braided hose, single-layer, EN857 1SC



Inner Tube:	Oil resistant, synthetic rubber
Reinforcement:	One high-tensile steel wire braid
Cover:	Oil resistant and weatherproof synthetic rubber smooth cover
Application:	Medium pressure circuits with restricted installation spaces Pre-control hoses Return hoses
Colour:	Black
Elongation:	+ 2 % to - 4 %
Media:	Mineral oil Poly-glycol based oil Water (0 °C to +70 °C) Water-oil-emulsions
Special Features:	Small bend radius
Standard:	EN 857 1SC
Temp. max.:	100 °C
Temp. min.:	-40 °C

Note: The change in length of the hose is determined at max. working pressure during testing according to EN ISO 1402

Identification	DN*	Inch	Size	Inside Ø min. mm	Inside Ø max. mm	Working pressure bar	Ø Reinforcement min. mm	Ø Reinforcement max. mm	Outside Ø max. mm	Test pressure bar	Burst pressure bar	Bend radius min. mm
MH104-SC	6	1/4"	4	6.4	6.9	225	9.6	10.8	13.5	450	900	75
MH105-SC	8	5/16"	5	7.9	8.5	215	10.9	12.1	14.5	430	860	85
MH106-SC	10	3/8"	6	9.5	10.1	180	12.7	14.5	16.9	360	720	90
MH108-SC	12	1/2"	8	12.7	13.5	160	15.9	18.1	20.4	320	640	130
MH110-SC	16	5/8"	10	15.8	16.7	130	19.8	21	23	260	520	150
MH112-SC	19	3/4"	12	18.8	19.8	105	23.2	24.4	26.7	210	420	180
MH116-SC	25	1"	16	25.4	26.4	88	30.7	31.9	34.9	176	352	230

DN = nominal diameter, nominal width

MH200-SC

Braided hose, two-layer, EN857 2SC



Inner Tube:	Oil resistant, synthetic rubber
Reinforcement:	Two high-tensile steel wire braids
Cover:	Oil resistant and weatherproof synthetic rubber smooth cover Flame-retardant according to MSHA
Application:	Medium pressure circuits with restricted installation spaces
Colour:	Black
Elongation:	+ 2 % to - 4 %
Media:	Mineral oil Poly-glycol based oil Water (0 °C to +70 °C) Water-oil-emulsions
Special Features:	Small bend radius
Standard:	EN 857 2SC
Temp. max.:	100 °C
Temp. min.:	-40 °C

Note: The change in length of the hose is determined at max. working pressure during testing according to EN ISO 1402

Identification	DN*	Inch	Size	Inside Ø min. mm	Inside Ø max. mm	Working pressure bar	Ø Reinforcement min. mm	Ø Reinforcement max. mm	Outside Ø max. mm	Test pressure bar	Bend radius min. mm
MH204-SC	6	1/4″	4	6.4	6.9	400	10.6	11.7	14.2	800	75
MH205-SC	8	5/16″	5	7.9	8.5	350	12.1	13.3	16	700	85
MH206-SC	10	3/8″	6	9.5	10.1	330	14.4	15.6	18.3	660	90
MH208-SC	12	1/2″	8	12.7	13.5	275	17.5	19.1	21.5	550	130
MH210-SC	16	5/8″	10	15.8	16.7	250	20.5	22.3	24.7	500	170
MH212-SC	19	3/4″	12	18.8	19.8	215	24.6	26.4	28.6	430	200
MH216-SC	25	1″	16	25.4	26.4	165	32.5	34.3	36.6	330	250

DN = nominal diameter, nominal width

SGX - SPIRAL GUARD

Plastic abrasion protection



Application:	Hose lines that are subjected to a shearing load during movement.
Colour:	Standard colour: Black Also available in blue, green, red and yellow.
Temp. max:	120 °C
Material:	Polyamide 6
Description:	Flat plastic profile protective helix protects the hose against external abrasion.

Identification	Internal Ø mm	External Ø mm
SGX16	16	19.6
SGX20	20	24
SGX25	25	29.8
SGX32	32	37.6
SGX40	40	47
SGX50	50	59
SGX60	60	69
SGX70	70	79
SGX100	100	112

Additional info: Also suitable for retrofitting and for bundling hose lines.

HPS
Protective Sleeve



Description:	Interwoven Nylon Multifilament protective sleeve. Prevents oil jet in event of a hose burst.
Material:	Nylon Multifilament
Working Temperature:	-40°C +125°C
Melt Point:	220+(-)10°C
MSHA Compliance:	MSHA IC293/01
Blasting Resistance:	Conform to ISO3457
Abrasion Resistance:	Conform to ISO 6945
Flammability:	FMVSS 302
Anti-Leakage:	Conform to SAE J343
UV Resistance:	Conform to BS EN13758-1
Standard colour:	Black

Note: Extremely abrasion resistant, flame retardant.

Identification	Internal Ø mm
HPS-NY-S-017-BK-T12	17
HPS-NY-S-020-BK-T12	20
HPS-NY-S-023-BK-T12	23
HPS-NY-S-025-BK-T12	25
HPS-NY-S-027-BK-T12	27
HPS-NY-S-031-BK-T12	31
HPS-NY-S-033-BK-T12	33
HPS-NY-S-036-BK-T12	36
HPS-NY-S-040-BK-T12	40
HPS-NY-S-044-BK-T12	44
HPS-NY-S-047-BK-T12	47
HPS-NY-S-053-BK-T12	53
HPS-NY-S-055-BK-T12	55
HPS-NY-S-060-BK-T12	60
HPS-NY-S-066-BK-T12	66
HPS-NY-S-073-BK-T12	73
HPS-NY-S-093-BK-T12	93
HPS-NY-S-112-BK-T12	125
HPS-NY-S-125-BK-T12	127

02



FERRULES & SWAGE NIPPLES

Ferrules and swage nipples are precision-engineered components used in the assembly of hydraulic hose fittings. Designed for crimped hose connections, they ensure secure, leak-free performance under high-pressure conditions.

This section includes a comprehensive range of ferrules and swage nipples to suit braided and spiral hoses across multiple international standards.

Applications include hydraulic machinery, transport equipment, agricultural systems and industrial fluid transfer systems.

Finished with MotusCoat™ for enhanced durability and corrosion resistance.

FERRULES & SWAGE NIPPLES

SS02 36



SP1 37



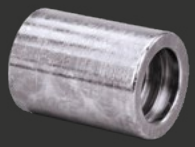
SN01 38



SN02 39



SN07 40



SN04 41



STB - MLF (Swage Tail x Metric Light Swivel Female) 42



STB - MLF (Swage Tail x Metric Light Swivel Female) 45 43



STB - MLF (Swage Tail x Metric Light Swivel Female) 90 44



STB-MLM (Swage Tail x Metric Light Male) 45



STB-MHF (Swage Tail x Metric Heavy Swivel Female) 46



STB-MHF-45S (Swage Tail x Metric Heavy Swivel Female) 45 47



STB-MHF-90S (Swage Tail x Metric Heavy Swivel Female) 90 48



STB - MHM (Swage Tail x Metric Heavy Male) 50



STB - BSF (Swage Tail x BSP Swivel Female) 51



STB - BSF (Swage Tail x BSP Swivel Female) 45 52



STB - BSF (Swage Tail x BSP Swivel Female) 90 53



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STB - BSF-90C (Swage Tail x BSP Swivel Female Compact 90) 55



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STB - BTM (Swage Tail x BSP Taper Male) 57

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STB - JIF (Swage Tail x JIC Swivel Female) 45 61

STB - JIF (Swage Tail x JIC Swivel Female) 90 62











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STB - F62 (Swage Tail x Code 62 Flange) 73











STB - F62 (Swage Tail x Code 62 Flange) 45 74

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FERRULES & SWAGE NIPPLES

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Metric Light Swivel Female Swept 45
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Metric Light Swivel Female Swept 90
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Metric Light Male
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Metric Heavy Swivel Female
83



Metric Heavy Swivel Female (Breaker Operation)
84



Metric Heavy Swivel Female Swept 45
85



Metric Heavy Swivel Female Swept 90
86



Metric Heavy Male
87



BSP Swivel Female
88



BSP Swivel Female (Breaker Operation)
89



BSP Swivel Female Swept 45
90



BSP Swivel Female Swept 90
91



BSP Parallel Male
92



NPT Tapered Male
93



JIC Swivel Female (Breaker Operation)
94



JIC Swivel Female
95



JIC Swivel Female Swept 45
96



JIC Swivel Female Swept 90
97



JIC Male
98



ORFS Swivel Female
99



ORFS Swivel Female Swept 45
100



ORFS Swivel Female Swept 90
101



Code 61 Flange
102



Code 61 Flange Swept 45
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Code 61 Flange Swept 90
104



Code 62 Flange
105



Code 62 Flange Swept 45
106



Code 62 Flange Swept 60
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Code 62 Flange Swept 135
108



Code 62 Flange Swept 90
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Metric Light Swivel Female - Swage fitting, DKOL
110



Metric Light Swivel Female 45
111



Metric Light Swivel Female 90
112



Metric Light Male - Swage fitting, CEL
113



Metric Heavy Swivel Female - Swage fitting, DKOS
114



Metric Heavy Swivel Female (Breaker Operation) - Swage fitting, DKOS
115



Metric Heavy Swivel Female 45
116



Metric Heavy Swivel Female 90
117



Metric Heavy Male - Swage fitting, CES
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FERRULES & SWAGE NIPPLES

BSP Swivel Female - Swage fitting, DKOR
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BSP Swivel Female (Breaker Operation) - Swage fitting, DKOR
120



BSP Swivel Female 45
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BSP Swivel Female 90
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BSP Parallel Male - Swage fitting, AGR
123



NP Tapered Male
124



JIC Swivel Female - Swage fitting, DKJ
125



JIC Swivel Female (Breaker Operation) - Swage fitting, DKJ
126



JIC Swivel Female 45
127



JIC Swivel Female 90
128



JIC Male - Swage fitting, AGJ
129



ORFS Swivel Female - Swage fitting, ORFS
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ORFS Swivel Female 45
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ORFS Swivel Female 90
132



ORFS Male
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Code 61 Flange - Swage fitting, SFL
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Code 61 Flange 45
135



Code 61 Flange 90
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Code 62 Flange - Swage fitting, SFS
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Code 62 Flange 45
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Code 62 Flange Swept 60 - Swage fitting, SFS angle 60°
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Code 62 Flange 90
140



Code 62 Flange Swept 135 - Swage fitting, SFS angle 135°
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SN09 (Suits MH900 Hose)
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EASYLOCK - Metric Light Swivel Female
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EASYLOCK - Metric Light Swivel Female 45
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EASYLOCK - Metric Light Swivel Female 90
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EASYLOCK - Metric Light Male
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EASYLOCK - Metric Standpipe
147



EASYLOCK - BSP Swivel Female
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EASYLOCK - BSP Swivel Female 45
149



EASYLOCK - BSP Swivel Female 90
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EASYLOCK - BSP Parallel Male
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EASYLOCK - JIC Swivel Female
152



EASYLOCK - JIC Male
153



EASYLOCK - JIC Swivel Female 90
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EASYLOCK - ORFS Swivel Female
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EASYLOCK - Tail x Tail
156



EASYLOCK - Metric Banjo
157



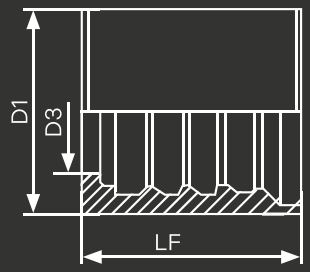
EASYLOCK - Double Metric Banjo
158



SS02
Swage ferrule for braided hose



Ferrule type:	Skive ferrule
Suitable for:	2SN (MH200-HT, MH200-RM) 2SC (MH200-S) MH400
Material:	Steel
Surface:	MotusCoat™



Note: The ferrule assignment depends on the hose type.

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
SS02-04-MC	6	4	1/4″	22	11.4	30.0
SS02-05-MC	8	5	5/16″	23	12.5	30.0
SS02-06-MC	10	6	3/8″	26	14.5	31.0
SS02-08-MC	12	8	1/2″	30	18.3	32.0
SS02-10-MC	16	10	5/8″	33	21.7	38.0
SS02-12-MC	19	12	3/4″	38	24.4	42.5
SS02-16-MC	25	16	1″	46	30.5	51.0
SS02-20-MC	31	20	1.1/4″	57	38.0	58.0
SS02-24-MC	38	24	1.1/2″	65	44.3	62.0
SS02-32-MC	51	32	2″	79	57.0	73.5

DN = Nominal diameter, nominal width

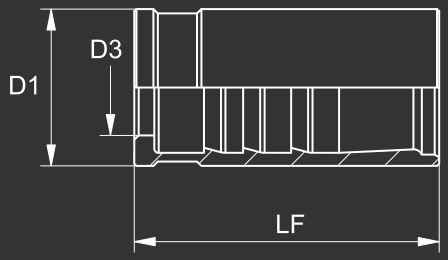
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SP1

Swage ferrule for braided hose



Ferrule type:	Non-skive ferrule
Suitable for:	MH 100 P
Material:	Steel
Surface:	MotusCoat™



Note: The ferrule assignment depends on the hose type.

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
SP1-04-MC	6	4	1/4"	18.0	11.2	30.5
SP1-05-MC	8	5	5/16"	19.0	12.7	32.0
SP1-06-MC	10	6	3/8"	22.0	14.5	33.0
SP1-08-MC	12	8	1/2"	26.0	18.3	34.0

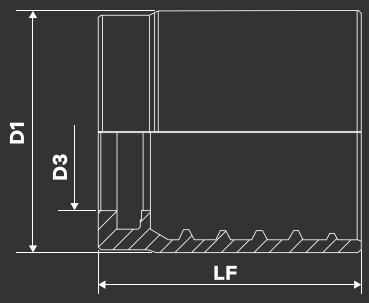
DN = Nominal diameter, nominal width

SN01

Swage ferrule for braided hose



Ferrule type:	Non-skive ferrule
Suitable for:	2SN (MH200-HT, MH200-RM) 2SC (MH200, MH200-S)
Material:	Steel
Surface:	MotusCoat™



Note: The ferrule assignment depends on the hose type.

Identification	DN*	Size	Inch	D1 mm	D3 mm	LF mm
SN01-04-MC	6	4	1/4″	19.6	11.4	30.2
SN01-05-MC	8	5	5/16″	20.6	12.6	30.2
SN01-06-MC	10	6	3/8″	23.2	14.2	32
SN01-08-MC	12	8	1/2″	27.5	19	34
SN01-10-MC	16	10	5/8″	31	22.3	37
SN01-12-MC	19	12	3/4″	36	25	42.5
SN01-16-MC	25	16	1″	42.8	30.5	50.5
SN01-20-MC	31	20	1.1/4″	51	37.6	59

DN = Nominal diameter, nominal width

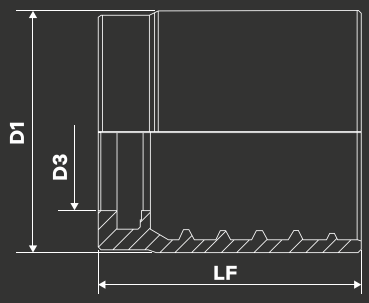
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SN02

Swage ferrule for braided hose



Ferrule type:	Non-skive ferrule
Suitable for:	2SN (MH200-HT, MH200-RM) 2SC (MH200, MH200-S)
Material:	Steel
Surface:	MotusCoat™

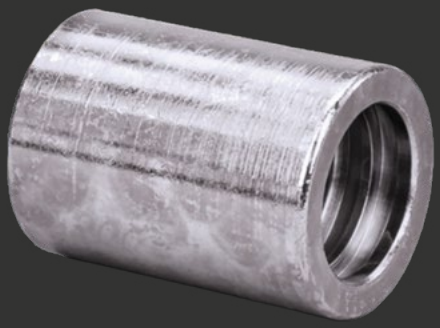


Note: The ferrule assignment depends on the hose type.

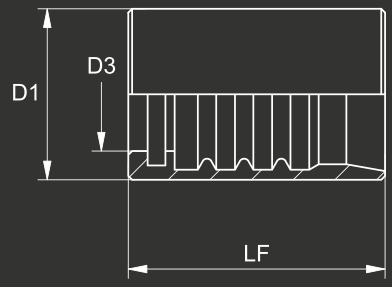
Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
SN02-03-MC	5	3	3/16″	21.0	9.5	23.5
SN02-04-MC	6	4	1/4″	23.0	11.4	30.0
SN02-05-MC	8	5	5/16″	24.0	13.2	30.0
SN02-06-MC	10	6	3/8″	26.0	14.5	31.0
SN02-08-MC	12	8	1/2″	29.0	18.3	32.0
SN02-10-MC	16	10	5/8″	33.0	21.6	36.0
SN02-12-MC	19	12	3/4″	37.0	24.4	42.5
SN02-16-MC	25	16	1″	46.0	31.0	51.0
SN02-20-MC	31	20	1.1/4″	59.0	38.3	57.5
SN02-24-MC	38	24	1.1/2″	67.0	44.0	60.5
SN02-32-MC	51	32	2″	80.0	57.0	74.0

DN = Nominal diameter, nominal width

SN07
Swage ferrule, NY 700



Ferrule type:	Non-skive ferrule
Suitable for:	MH700 (R7)
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	D1 mm	D3 mm	LF mm
SN07-03-MC	5	3	3/16″	15.0	9.5	29.0
SN07-04-MC	6	4	1/4″	18.0	10.8	31.0
SN07-05-MC	8	5	5/16″	20.0	12.5	31.0
SN07-06-MC	10	6	3/8″	22.0	14.6	33.2
SN07-08-MC	12	8	1/2″	27.0	18.3	37.0

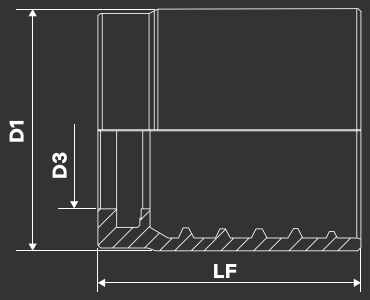
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SN04

Swage ferrule for spiral hose, non-skive ferrule, steel



Ferrule type:	Non-skive ferrule
Suitable for:	MH400
Material:	Steel
Surface:	MotusCoat™



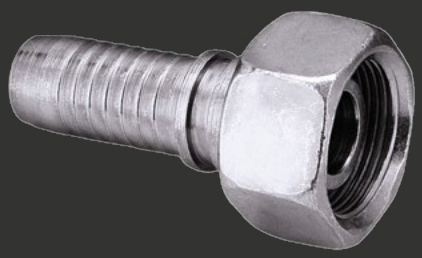
Note: The ferrule assignment depends on the hose type.

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
SN04-06	10	6	3/8″	27.5	14.5	31
SN04-08	12	8	1/2″	31.9	18.3	36
SN04-10	16	10	5/8″	35.8	21.6	38.2
SN04-12	19	12	3/4″	40.3	24.4	46.5
SN04-16	25	16	1″	49.1	31	53
SN04-20	31	20	1.1/4″	57.3	38.3	66.5

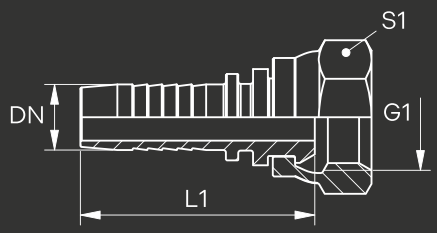
DN = Nominal diameter, nominal width

STB - MLF (Swage Tail x Metric Light Swivel Female)

Swage nipple, DKL



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	Metric nut thread S1
Sealing form 1:	24° / 60° Universal sealing head
Short code:	DKL DN G1
Series	Light
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

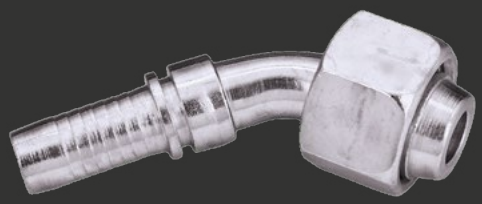
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
STB-MLF-0312-MC	5	3	3/16″	M 12 x 1.5	6	41.2	14
STB-MLF-0412-MC	6	4	1/4″	M 12 x 1.5	6	45.0	14
STB-MLF-0414-MC	6	4	1/4″	M 14 x 1.5	8	47.0	17
STB-MLF-0416-MC	6	4	1/4″	M 16 x 1.5	10	47.5	19
STB-MLF-0418-MC	6	4	1/4″	M 18 x 1.5	12	48.5	22
STB-MLF-0516-MC	8	5	5/16″	M 16 x 1.5	10	47.5	19
STB-MLF-0518-MC	8	5	5/16″	M 18 x 1.5	12	48.5	22
STB-MLF-0614-MC	10	6	3/8″	M 14 x 1.5	8	49.5	17
STB-MLF-0616-MC	10	6	3/8″	M 16 x 1.5	10	49.0	19
STB-MLF-0618-MC	10	6	3/8″	M 18 x 1.5	12	50.0	22
STB-MLF-0622-MC	10	6	3/8″	M 22 x 1.5	15	50.5	27
STB-MLF-0822-MC	12	8	1/2″	M 22 x 1.5	15	51.5	27
STB-MLF-0826-MC	12	8	1/2″	M 26 x 1.5	18	54.0	32
STB-MLF-1022-MC	16	10	5/8″	M 22 x 1.5	15	56.0	27
STB-MLF-1026-MC	16	10	5/8″	M 26 x 1.5	18	58.5	32
STB-MLF-1230-MC	19	12	3/4″	M 30 x 2	22	66.0	36
STB-MLF-1236-MC	19	12	3/4″	M 36 x 2	28	67.0	41
STB-MLF-1636-MC	25	16	1″	M 36 x 2	28	75.0	41
STB-MLF-2045-MC	31	20	1.1/4″	M 45 x 2	35	88.0	50
STB-MLF-2452-MC	38	24	1.1/2″	M 52 x 2	42	92.5	60

Product Version: Stainless Steel (SS)

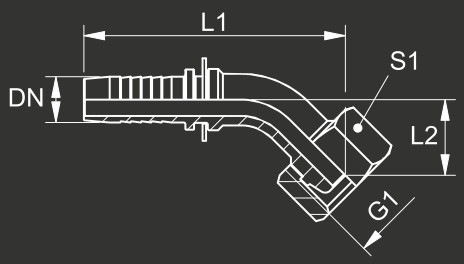
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STB - MLF (Swage Tail x Metric Light Swivel Female) 45

Swage nipple, DKL angle 45°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	Metric nut thread
Sealing form 1:	24° / 60° Universal sealing head
Short code:	DKL
Series:	Light
Material:	Steel
Surface:	MotusCoat™



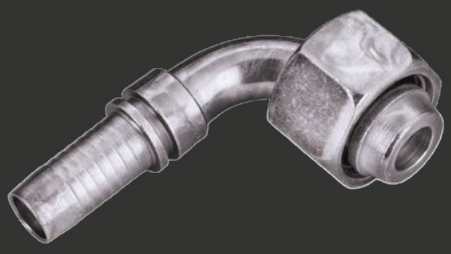
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø	L1 mm	L2 mm	S1
STB-MLF-45S-0312-MC	5	3	3/16″	M 12 x 1.5	6 mm	56.0	15.0	14
STB-MLF-45S-0412-MC	6	4	1/4″	M 12 x 1.5	6 mm	62.0	17.0	14
STB-MLF-45S-0414-MC	6	4	1/4″	M 14 x 1.5	8 mm	62.5	14.5	17
STB-MLF-45S-0416-MC	6	4	1/4″	M 16 x 1.5	10 mm	63.0	15.5	19
STB-MLF-45S-0418-MC	6	4	1/4″	M 18 x 1.5	12 mm	65.0	15.5	22
STB-MLF-45S-0516-MC	8	5	5/16″	M 16 x 1.5	10 mm	64.5	15.0	19
STB-MLF-45S-0518-MC	8	5	5/16″	M 18 x 1.5	12 mm	65.0	15.5	22
STB-MLF-45S-0616-MC	10	6	3/8″	M 16 x 1.5	10 mm	72.5	19.5	19
STB-MLF-45S-0618-MC	10	6	3/8″	M 18 x 1.5	12 mm	71.0	18.0	22
STB-MLF-45S-0622-MC	10	6	3/8″	M 22 x 1.5	15 mm	71.5	18.5	27
STB-MLF-45S-0822-MC	12	8	1/2″	M 22 x 1.5	15 mm	79.5	18.5	27
STB-MLF-45S-0826-MC	12	8	1/2″	M 26 x 1.5	18 mm	90.5	24.0	32
STB-MLF-45S-1026-MC	16	10	5/8″	M 26 x 1.5	18 mm	95.0	24.0	32
STB-MLF-45S-1230-MC	19	12	3/4″	M 30 x 2	22 mm	106.0	27.0	36
STB-MLF-45S-1236-MC	19	12	3/4″	M 36 x 2	28 mm	124.0	29.5	41
STB-MLF-45S-1636-MC	25	16	1″	M 36 x 2	28 mm	132.0	29.5	41
STB-MLF-45S-2045-MC	31	20	1.1/4″	M 45 x 2	35 mm	159.0	38.5	50
STB-MLF-45S-2452-MC	38	24	1.1/2″	M 52 x 2	42 mm	181.5	42.5	60

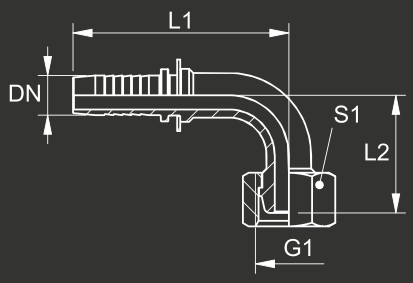
Product Version: Stainless Steel (SS)

STB - MLF (Swage Tail x Metric Light Swivel Female) 90

Swage nipple, DKL angle 90°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	Metric nut thread
Sealing form 1:	24° / 60° Universal sealing head
Short code:	DKL
Series:	Light
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø	L1 mm	L2 mm	S1
STB-MLF-90S-0312-MC	5	3	3/16"	M 12 x 1.5	6 mm	48.5	29.0	14
STB-MLF-90S-0412-MC	6	4	1/4"	M 12 x 1.5	6 mm	57.0	30.5	14
STB-MLF-90S-0414-MC	6	4	1/4"	M 14 x 1.5	8 mm	55.0	30.0	17
STB-MLF-90S-0416-MC	6	4	1/4"	M 16 x 1.5	10 mm	55.0	31.0	19
STB-MLF-90S-0418-MC	6	4	1/4"	M 18 x 1.5	12 mm	62.5	35.0	22
STB-MLF-90S-0516-MC	8	5	5/16"	M 16 x 1.5	10 mm	58.0	30.0	19
STB-MLF-90S-0518-MC	8	5	5/16"	M 18 x 1.5	12 mm	58.0	30.5	22
STB-MLF-90S-0616-MC	10	6	3/8"	M 16 x 1.5	10 mm	63.0	38.0	19
STB-MLF-90S-0618-MC	10	6	3/8"	M 18 x 1.5	12 mm	64.0	35.0	22
STB-MLF-90S-0622-MC	10	6	3/8"	M 22 x 1.5	15 mm	64.0	35.5	27
STB-MLF-90S-0822-MC	12	8	1/2"	M 22 x 1.5	15 mm	72.5	39.5	27
STB-MLF-90S-0826-MC	12	8	1/2"	M 26 x 1.5	18 mm	83.5	49.5	32
STB-MLF-90S-1022-MC	16	10	5/8"	M 22 x 1.5	15 mm	87.0	49.5	27
STB-MLF-90S-1026-MC	16	10	5/8"	M 26 x 1.5	18 mm	88.0	49.5	32
STB-MLF-90S-1230-MC	19	12	3/4"	M 30 x 2	22 mm	99.5	54.5	36
STB-MLF-90S-1636-MC	25	16	1"	M 36 x 2	28 mm	127.0	66.0	41
STB-MLF-90S-2045-MC	31	20	1.1/4"	M 45 x 2	35 mm	151.5	82.0	50
STB-MLF-90S-2452-MC	38	24	1.1/2"	M 52 x 2	42 mm	176.5	95.0	60

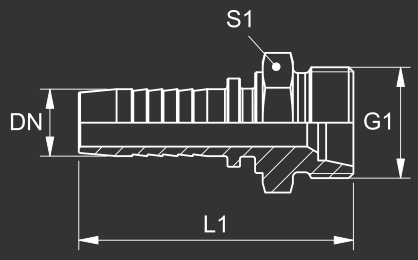
Product Version: Stainless Steel (SS)

STB-MLM (Swage Tail x Metric Light Male)

Swage nipple, CEL



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	Metric cylindrical outer thread
Sealing form 1:	24° inner cone
Short code:	CEL
Standard:	ISO 8434-1
Series:	Light
Material:	Steel
Surface:	MotusCoat™



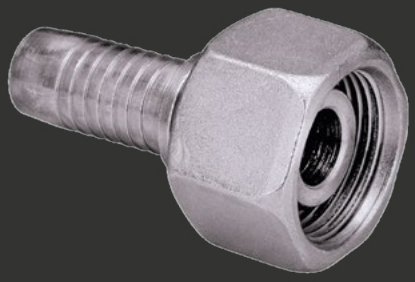
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
STB-MLM-0312-MC	5	3	3/16″	M 12 x 1.5	6	43.0	14
STB-MLM-0412-MC	6	4	1/4″	M 12 x 1.5	6	49.0	14
STB-MLM-0414-MC	6	4	1/4″	M 14 x 1.5	8	49.0	17
STB-MLM-0416-MC	6	4	1/4″	M 16 x 1.5	10	50.0	17
STB-MLM-0418-MC	6	4	1/4″	M 18 x 1.5	12	51.0	19
STB-MLM-0516-MC	8	5	5/16″	M 16 x 1.5	10	50.0	17
STB-MLM-0518-MC	8	5	5/16″	M 18 x 1.5	12	51.0	19
STB-MLM-0522-MC	8	5	5/16″	M 22 x 1.5	15	52.0	24
STB-MLM-0616-MC	10	6	3/8″	M 16 x 1.5	10	52.5	17
STB-MLM-0618-MC	10	6	3/8″	M 18 x 1.5	12	52.5	19
STB-MLM-0622-MC	10	6	3/8″	M 22 x 1.5	15	53.5	24
STB-MLM-0818-MC	12	8	1/2″	M 18 x 1.5	12	53.5	22
STB-MLM-0822-MC	12	8	1/2″	M 22 x 1.5	15	54.5	24
STB-MLM-0826-MC	12	8	1/2″	M 26 x 1.5	18	55.5	27
STB-MLM-1022-MC	16	10	5/8″	M 22 x 1.5	15	59.0	24
STB-MLM-1022-MC	16	10	5/8″	M 26 x 1.5	18	60.0	27
STB-MLM-1030-MC	16	10	5/8″	M 30 x 2	22	62.0	32
STB-MLM-1226-MC	19	12	3/4″	M 26 x 1.5	18	66.5	27
STB-MLM-1230-MC	19	12	3/4″	M 30 x 2	22	68.5	32
STB-MLM-1236-MC	19	12	3/4″	M 36 x 2	28	70.0	41
STB-MLM-1636-MC	25	16	1″	M 36 x 2	28	77.5	41
STB-MLM-2045-MC	31	20	1.1/4″	M 45 x 2	35	91.0	46
STB-MLM-2452-MC	38	24	1.1/2″	M 52 x 2	42	95.5	55

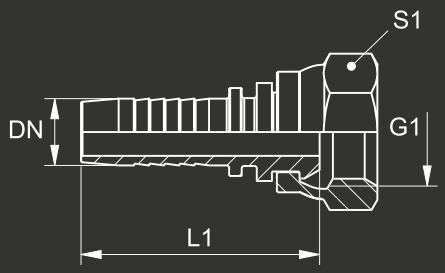
Product Version: Stainless Steel (SS)

STB-MHF (Swage Tail x Metric Heavy Swivel Female)

Swage nipple, DKS



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	Metric nut thread
Sealing form 1:	24/60° Universal sealing head
Short code:	DKS
Series:	Heavy
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
STB-MHF-0314-MC	5	3	3/16″	M 14 x 1.5	6	44.5	17
STB-MHF-0316-MC	5	3	3/16″	M 16 x 1.5	8	44.5	19
STB-MHF-0416-MC	6	4	1/4″	M 16 x 1.5	8	51.5	19
STB-MHF-0418-MC	6	4	1/4″	M 18 x 1.5	10	52.5	22
STB-MHF-0518-MC	8	5	5/16″	M 18 x 1.5	10	52.5	22
STB-MHF-0520-MC	8	5	5/16″	M 20 x 1.5	12	52.5	24
STB-MHF-0620-MC	10	6	3/8″	M 20 x 1.5	12	54.0	24
STB-MHF-0622-MC	10	6	3/8″	M 22 x 1.5	14	57.0	27
STB-MHF-0824-MC	12	8	1/2″	M 24 x 1.5	16	58.0	30
STB-MHF-1030-MC	16	10	5/8″	M 30 x 2	20	66.0	36
STB-MHF-1236-MC	20	12	3/4″	M 36 x 2	25	75.5	46
STB-MHF-1642-MC	25	16	1″	M 42 x 2	30	85.5	50
STB-MHF-2052-MC	31	20	1.1/4″	M 52 x 2	38	98.0	60

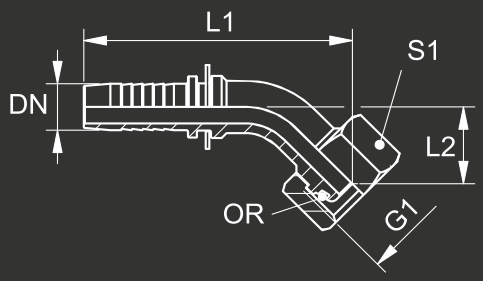
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STB-MHF-45S (Swage Tail x Metric Heavy Swivel Female) 45

Swage nipple, DKOS angle 45°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Series:	Heavy
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
STB-MHF-45S-0316-MC	5	3	3/16"	M 16 x 1.5	8	56.5	15.5	19	6.0 x 1.5
STB-MHF-45S-0318-MC	5	3	3/16"	M 18 x 1.5	10	58.0	17.0	22	7.0 x 2.0
STB-MHF-45S-0414-MC	6	4	1/4"	M 14 x 1.5	6	64.5	16.5	17	4.0 x 1.5
STB-MHF-45S-0416-MC	6	4	1/4"	M 16 x 1.5	8	64.5	16.5	19	6.0 x 1.5
STB-MHF-45S-0418-MC	6	4	1/4"	M 18 x 1.5	10	65.0	17.0	22	7.5 x 1.5
STB-MHF-45S-0420-MC	6	4	1/4"	M 20 x 1.5	12	67.5	18.0	24	9.0 x 1.5
STB-MHF-45S-0518-MC	8	5	5/16"	M 18 x 1.5	10	64.0	17.0	22	7.5 x 1.5
STB-MHF-45S-0520-MC	8	5	5/16"	M 20 x 1.5	12	67.5	18.0	24	9.0 x 1.5
STB-MHF-45S-0618-MC	10	6	3/8"	M 18 x 1.5	10	72.0	21.0	22	7.5 x 1.5
STB-MHF-45S-0620-MC	10	6	3/8"	M 20 x 1.5	12	73.0	20.0	24	9.0 x 1.5
STB-MHF-45S-0622-MC	10	6	3/8"	M 22 x 1.5	14	73.5	20.5	27	10.0 x 2.0
STB-MHF-45S-0624-MC	10	6	3/8"	M 24 x 1.5	16	81.0	21.0	30	12.0 x 2.0
STB-MHF-45S-0822-MC	12	8	1/2"	M 22 x 1.5	14	81.0	27.5	27	10.0 x 2.0
STB-MHF-45S-0824-MC	12	8	1/2"	M 24 x 1.5	16	82.0	21.0	30	12.0 x 2.0
STB-MHF-45S-1024-MC	16	10	5/8"	M 24 x 1.5	16	85.5	27.5	30	12.0 x 2.0
STB-MHF-45S-1030-MC	16	10	5/8"	M 30 x 2	20	98.5	27.5	36	16.0 x 2.5
STB-MHF-45S-1036-MC	16	10	5/8"	M 36 x 2	25	103.0	30.5	46	20.0 x 2.5
STB-MHF-45S-1230-MC	19	12	3/4"	M 30 x 2	20	109.0	30.0	36	16.0 x 2.5
STB-MHF-45S-1236-MC	19	12	3/4"	M 36 x 2	25	109.5	30.5	46	20.0 x 2.5
STB-MHF-45S-1636-MC	25	16	1"	M 36 x 2	25	141.5	39.5	46	20.0 x 2.5
STB-MHF-45S-1642-MC	25	16	1"	M 42 x 2	30	135.5	33.0	50	25.0 x 2.5
STB-MHF-45S-2052-MC	31	20	1.1/4"	M 52 x 2	38	161.5	40.5	60	33.0 x 2.5
STB-MHF-45S-2452-MC	38	24	1.1/2"	M 52 x 2	38	165.0	40.5	60	33.0 x 2.5

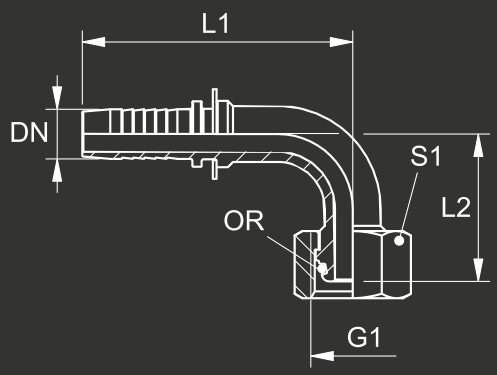
Product Version: Stainless Steel (SS)

STB-MHF-90S (Swage Tail x Metric Heavy Swivel Female) 90

Swage nipple, DKOS angle 90°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Series:	Heavy
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
STB-MHF-90S-0316-MC	5	3	3/16″	M 16 x 1.5	8	48.5	29.5	19	6.0 x 1.5
STB-MHF-90S-0316 DL37-MC	5	3	3/16″	M 16 x 1.5	8	48.5	37.0	19	6.0 x 1.5
STB-MHF-90S-0414-MC	6	4	1/4″	M 14 x 1.5	6	58.0	34.0	17	4.0 x 1.5
STB-MHF-90S-0416-MC	6	4	1/4″	M 16 x 1.5	8	55.0	32.5	19	6.0 x 1.5
STB-MHF-90S-0418-MC	6	4	1/4″	M 18 x 1.5	10	55.0	33.5	22	7.5 x 1.5
STB-MHF-90S-0420-MC	6	4	1/4″	M 20 x 1.5	12	58.0	34.0	24	9.0 x 1.5
STB-MHF-90S-0518-MC	8	5	5/16″	M 18 x 1.5	10	61.5	38.5	22	7.5 x 1.5
STB-MHF-90S-0520-MC	8	5	5/16″	M 20 x 1.5	12	58.0	34.0	24	9.0 x 1.5
STB-MHF-90S-0520 DL45-MC	8	5	5/16″	M 20 x 1.5	12	58.0	45.0	24	9.0 x 1.5
STB-MHF-90S-0618-MC	10	6	3/8″	M 18 x 1.5	10	63.0	38.5	22	7.5 x 1.5
STB-MHF-90S-0620-MC	10	6	3/8″	M 20 x 1.5	12	64.0	37.5	24	9.0 x 1.5
STB-MHF-90S-0622-MC	10	6	3/8″	M 22 x 1.5	14	64.0	38.5	27	10.0 x 2.0
STB-MHF-90S-0624-MC	10	6	3/8″	M 24 x 1.5	16	71.5	43.0	30	12.0 x 2.0
STB-MHF-90S-0822-MC	12	8	1/2″	M 22 x 1.5	14	71.5	55.0	27	10.0 x 2.0
STB-MHF-90S-0824-MC	12	8	1/2″	M 24 x 1.5	16	72.5	43.0	30	12.0 x 2.0
STB-MHF-90S-0830-MC	12	8	1/2″	M 30 x 2	20	83.5	55.0	36	16.0 x 2.5
STB-MHF-90S-1024-MC	16	10	5/8″	M 24 x 1.5	16	76.0	55.0	30	12.0 x 2.0
STB-MHF-90S-1030-MC	16	10	5/8″	M 30 x 2	20	88.0	55.0	36	16.0 x 2.5
STB-MHF-90S-1030 DL100-MC	16	10	5/8″	M 30 x 2	20	88.0	100.0	36	16.0 x 2.5
STB-MHF-90S-1036-MC	16	10	5/8″	M 36 x 2	25	93.0	59.5	46	20.0 x 2.5

Product Version: Stainless Steel (SS)

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STB-MHF-90S (Swage Tail x Metric Heavy Swivel Female) 90

Swage nipple, DKOS angle 90°

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
STB-MHF-90S-1230-MC	19	12	3/4"	M 30 x 2	20	99.5	58.5	36	16.0 x 2.5
STB-MHF-90S-1236-MC	19	12	3/4"	M 36 x 2	25	99.5	59.5	46	20.0 x 2.5
STB-MHF-90S-1236 DL110-MC	19	12	3/4"	M 36 x 2	25	99.5	110.0	46	20.0 x 2.5
STB-MHF-90S-1236 DL130-MC	19	12	3/4"	M 36 x 2	25	99.5	130.0	46	20.0 x 2.5
STB-MHF-90S-1236 DL150-MC	19	12	3/4"	M 36 x 2	25	99.5	150.0	46	20.0 x 2.5
STB-MHF-90S-1242-MC	19	12	3/4"	M 42 x 2	30	119.0	71.0	50	25.0 x 2.5
STB-MHF-90S-1636-MC	25	16	1"	M 36 x 2	25	126.0	80.5	46	20.0 x 2.5
STB-MHF-90S-1642-MC	25	16	1"	M 42 x 2	30	127.0	71.0	50	25.0 x 2.5
STB-MHF-90S-2042-MC	31	20	1.1/4"	M 42 x 2	30	135.0	85.0	50	25.0 x 2.5
STB-MHF-90S-2052-MC	31	20	1.1/4"	M 52 x 2	38	151.5	85.0	60	33.0 x 2.5
STB-MHF-90S-2452-MC	38	24	1.1/2"	M 52 x 2	38	155.0	95.0	60	33.0 x 2.5

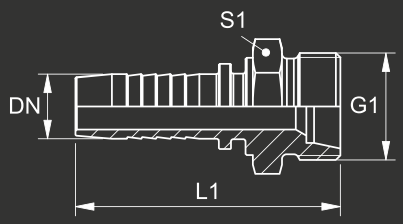
Product Version: Stainless Steel (SS)

STB - MHM (Swage Tail x Metric Heavy Male)

Swage nipple, CES



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	Metric cylindrical outer thread
Sealing form 1:	24° inner cone
Short code:	CES
Standard:	ISO 8434-1
Series:	Heavy
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø	L1 mm	S1
STB-MHM-0316-MC	5	3	3/16″	M 16 x 1.5	8 mm	48.0	17
STB-MHM-0414-MC	6	4	1/4″	M 14 x 1.5	6 mm	52.0	14
STB-MHM-0416-MC	6	4	1/4″	M 16 x 1.5	8 mm	54.0	17
STB-MHM-0418-MC	6	4	1/4″	M 18 x 1.5	10 mm	54.0	19
STB-MHM-0518-MC	8	5	5/16″	M 18 x 1.5	10 mm	54.0	19
STB-MHM-0520-MC	8	5	5/16″	M 20 x 1.5	12 mm	56.0	22
STB-MHM-0524-MC	8	5	5/16″	M 24 x 1.5	16 mm	58.0	27
STB-MHM-0618-MC	10	6	3/8″	M 18 x 1.5	10 mm	55.5	19
STB-MHM-0620-MC	10	6	3/8″	M 20 x 1.5	12 mm	57.5	22
STB-MHM-0622-MC	10	6	3/8″	M 22 x 1.5	14 mm	59.5	24
STB-MHM-0624-MC	10	6	3/8″	M 24 x 1.5	16 mm	59.5	27
STB-MHM-0822-MC	12	8	1/2″	M 22 x 1.5	14 mm	60.5	24
STB-MHM-0824-MC	12	8	1/2″	M 24 x 1.5	16 mm	60.5	27
STB-MHM-0830-MC	12	8	1/2″	M 30 x 2	20 mm	64.5	32
STB MHM-1030-MC	16	10	5/8″	M 30 x 2	20 mm	69.0	32
STB-MHM-1230-MC	19	12	3/4″	M 30 x 2	20 mm	75.5	32
STB-MHM-1236-MC	19	12	3/4″	M 36 x 2	25 mm	79.5	36
STB-MHM-1636-MC	25	16	1″	M 36 x 2	25 mm	87.5	36
STB-MHM-1642-MC	25	16	1″	M 42 x 2	30 mm	89.5	46
STB MHM-2052-MC	31	20	1.1/4″	M 52 x 2	38 mm	104.0	55
STB-MHM-2452-MC	38	24	1.1/2″	M 52 x 2	38 mm	107.5	55

Product Version: Stainless Steel (SS)

STB - BSF (Swage Tail x BSP Swivel Female)

Swage nipple, DKR



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Short code:	DKR
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
STB-BSF-0302-MC	5	3	3/16″	G 1/8″–28	37.0	14
STB-BSF-0304-MC	5	3	3/16″	G 1/4″–19	37.5	19
STB-BSF-0402-MC	6	4	1/4″	G 1/8″–28	43.0	14
STB-BSF-0404-MC	6	4	1/4″	G 1/4″–19	44.5	19
STB-BSF-0406-MC	6	4	1/4″	G 3/8″–19	46.5	22
STB-BSF-0504-MC	8	5	5/16″	G 1/4″–19	45.0	19
STB-BSF-0506-MC	8	5	5/16″	G 3/8″–19	47.0	22
STB-BSF-0508-MC	8	5	5/16″	G 1/2″–14	48.5	27
STB-BSF-0604-MC	10	6	3/8″	G 1/4″–19	46.5	19
STB-BSF-0606-MC	10	6	3/8″	G 3/8″–19	48.0	22
STB-BSF-0608-MC	10	6	3/8″	G 1/2″–14	49.5	27
STB-BSF-0806-MC	12	8	1/2″	G 3/8″–19	48.0	22
STB-BSF-0808-MC	12	8	1/2″	G 1/2″–14	50.5	27
STB-BSF-0810-MC	12	8	1/2″	G 5/8″–14	49.5	30
STB-BSF-0812-MC	12	8	1/2″	G 3/4″–14	52.0	32
STB-BSF-1008-MC	16	10	5/8″	G 1/2″–14	55.0	27
STB-BSF-1010-MC	16	10	5/8″	G 5/8″–14	54.0	30
STB-BSF-1012-MC	16	10	5/8″	G 3/4″–14	57.0	32
STB-BSF-1016-MC	16	10	5/8″	G 1″–11	62.0	38
STB-BSF-1208-MC	19	12	3/4″	G 1/2″–14	62.0	27
STB-BSF-1210-MC	19	12	3/4″	G 5/8″–14	61.0	30
STB-BSF-1212-MC	19	12	3/4″	G 3/4″–14	64.0	32
STB-BSF-1216-MC	19	12	3/4″	G 1″–11	67.0	38
STB-BSF-1616-MC	25	16	1″	G 1″–11	75.0	38
STB-BSF-1620-MC	25	16	1″	G 1.1/4″–11	80.5	50
STB-BSF-2020-MC	31	20	1.1/4″	G 1.1/4″–11	88.0	50
STB-BSF-2424-MC	38	24	1.1/2″	G 1.1/2″–11	92.0	55
STB-BSF-3232-MC	51	32	2″	G 2″–11	110.5	70

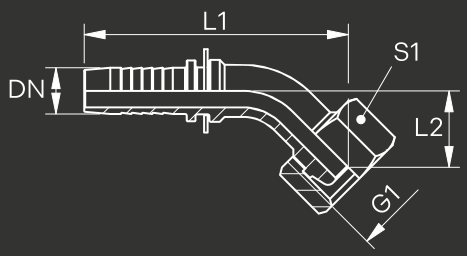
Product Version: Stainless Steel (SS)

STB - BSF (Swage Tail x BSP Swivel Female) 45

Swage nipple, DKR angle 45°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Short code:	DKR DN
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
STB-BSF-45S-0302-MC	5	3	3/16"	G 1/8"–28	54.0	14.0	14
STB-BSF-45S-0304-MC	5	3	3/16"	G 1/4"–19	54.5	12.5	19
STB-BSF-45S-0402-MC	6	4	1/4"	G 1/8"–28	62.5	14.0	14
STB-BSF-45S-0404-MC	6	4	1/4"	G 1/4"–19	60.5	12.5	19
STB-BSF-45S-0406-MC	6	4	1/4"	G 3/8"–19	62.0	14.0	22
STB-BSF-45S-0504-MC	8	5	5/16"	G 1/4"–19	64.0	14.5	17
STB-BSF-45S-0506-MC	8	5	5/16"	G 3/8"–19	64.0	14.5	22
STB-BSF-45S-0604-MC	10	6	3/8"	G 1/4"–19	69.5	16.5	19
STB-BSF-45S-0606-MC	10	6	3/8"	G 3/8"–19	69.5	16.5	22
STB-BSF-45S-0608-MC	10	6	3/8"	G 1/2"–14	70.5	17.5	27
STB-BSF-45S-0806-MC	12	8	1/2"	G 3/8"–19	78.5	17.5	22
STB-BSF-45S-0808-MC	12	8	1/2"	G 1/2"–14	78.5	17.5	27
STB-BSF-45S-0810-MC	12	8	1/2"	G 5/8"–14	80.5	20.5	30
STB-BSF-45S-0812-MC	12	8	1/2"	G 3/4"–14	82.5	22.5	32
STB-BSF-45S-1010-MC	16	10	5/8"	G 5/8"–14	96.0	24.5	30
STB-BSF-45S-1012-MC	16	10	5/8"	G 3/4"–14	97.5	26.0	32
STB-BSF-45S-1212-MC	19	12	3/4"	G 3/4"–14	108.0	28.5	32
STB-BSF-45S-1216-MC	19	12	3/4"	G 1"–11	111.0	31.5	38
STB-BSF-45S-1616-MC	25	16	1"	G 1"–11	137.0	35.0	38
STB-BSF-45S-1620-MC	25	16	1"	G 1.1/4"–11	134.5	32.0	50
STB-BSF-45S-2020-MC	31	20	1.1/4"	G 1.1/4"–11	165.0	45.5	50
STB-BSF-45S-3232-MC	51	32	2"	G 2"–11	231.5	67.0	70

Product Version: Stainless Steel (SS)

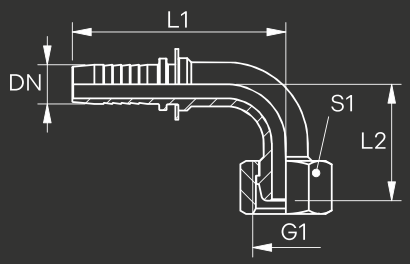
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STB - BSF (Swage Tail x BSP Swivel Female) 90

Swage nipple, DKR angle 90°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
S1 Short code:	DKR
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	MotusCoat™



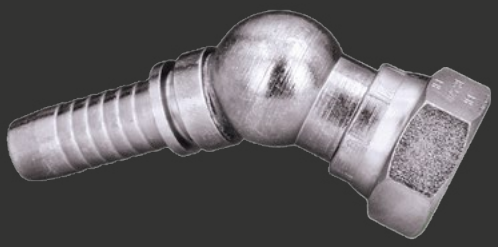
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1 mm
STB-BSF-90S-0302-MC	5	3	3/16"	G 1/8"–28	47.5	27.5	14
STB-BSF-90S-0304-MC	5	3	3/16"	G 1/4"–19	49.0	27.0	19
STB-BSF-90S-0402-MC	6	4	1/4"	G 1/8"–28	57.0	27.5	14
STB-BSF-90S-0404-MC	6	4	1/4"	G 1/4"–19	55.0	27.0	19
STB-BSF-90S-0406-MC	6	4	1/4"	G 3/8"–19	56.0	29.0	22
STB-BSF-90S-0504-MC	8	5	5/16"	G 1/4"–19	55.0	31.0	17
STB-BSF-90S-0506-MC	8	5	5/16"	G 3/8"–19	58.0	29.0	22
STB-BSF-90S-0508-MC	8	5	5/16"	G 1/2"–14	62.5	34.0	27
STB-BSF-90S-0604-MC	10	6	3/8"	G 1/4"–19	64.0	36.5	19
STB-BSF-90S-0606-MC	10	6	3/8"	G 3/8"–19	64.0	33.0	22
STB-BSF-90S-0608-MC	10	6	3/8"	G 1/2"–14	64.0	34.0	27
STB-BSF-90S-0806-MC	12	8	1/2"	G 3/8"–19	72.5	40.0	22
STB-BSF-90S-0808-MC	12	8	1/2"	G 1/2"–14	72.5	38.0	27
STB-BSF-90S-0810-MC	12	8	1/2"	G 5/8"–14	71.5	42.5	30
STB-BSF-90S-0812-MC	12	8	1/2"	G 3/4"–14	71.5	45.5	32
STB-BSF-90S-1010-MC	16	10	5/8"	G 5/8"–14	87.0	52.5	30
STB-BSF-90S-1012-MC	16	10	5/8"	G 3/4"–14	87.0	55.0	32
STB-BSF-90S-1212-MC	19	12	3/4"	G 3/4"–14	99.0	58.0	32
STB-BSF-90S-1216-MC	19	12	3/4"	G 1"–11	99.0	62.0	38
STB-BSF-90S-1616-MC	25	16	1"	G 1"–11	126.0	74.0	38
STB-BSF-90S-1620-MC	25	16	1"	G 1.1/4"–11	127.0	69.5	50
STB-BSF-90S-2020-MC	31	20	1.1/4"	G 1.1/4"–11	150.5	92.0	50

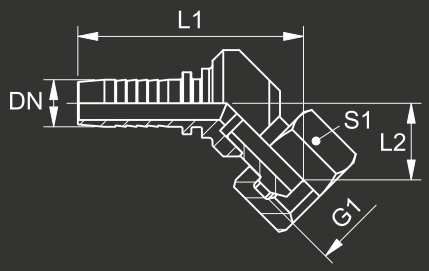
Product Version: Stainless Steel (SS)

STB - BSF-45C (Swage Tail x BSP Swivel Female Compact 45)

Swage nipple, DKR Comp. angle 45°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Supplementary design information:	Compact form
Short code:	DKR
Standard:	BS 5200
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

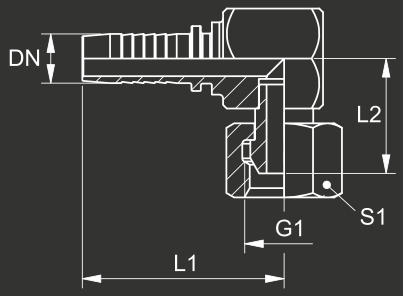
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
STB-BSF-45C-0404-MC	6	4	1/4"	G 1/4"–19	65.0	12.0	19
STB-BSF-45C-0606-MC	10	6	3/8"	G 3/8"–19	60.0	19.0	22
STB-BSF-45C-0808-MC	12	8	1/2"	G 1/2"–14	74.0	15.0	27
STB-BSF-45C-1010-MC	16	10	5/8"	G 5/8"–14	-	-	-
STB-BSF-45C-1212-MC	19	12	3/4"	G 3/4"–14	-	-	-
STB-BSF-45C-1616-MC	25	16	1"	G 1"–11	-	-	-

STB - BSF-90C (Swage Tail x BSP Swivel Female Compact 90)

Swage nipple, DKR Comp. angle 90°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Supplementary design information:	Compact form
Short code:	DKR
Standard:	BS 5200
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

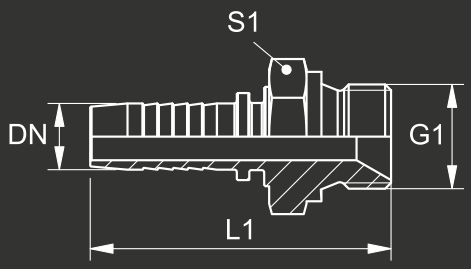
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
STB-BSF-90C-0302-MC	5	3	3/16"	G 1/8"–28	47.0	17.0	14
STB-BSF-90C-0404-MC	6	4	1/4"	G 1/4"–19	50.0	20.0	19
STB-BSF-90C-0406-MC	6	4	1/4"	G 3/8"–19	53.5	23.0	22
STB-BSF-90C-0506-MC	8	5	5/16"	G 3/8"–19	54.0	23.0	22
STB-BSF-90C-0604-MC	10	6	3/8"	G 1/4"–19	52.0	20.0	19
STB-BSF-90C-0606-MC	10	6	3/8"	G 3/8"–19	55.5	23.0	22
STB-BSF-90C-0608-MC	10	6	3/8"	G 1/2"–14	57.6	26.0	27
STB-BSF-90C-0808-MC	12	8	1/2"	G 1/2"–14	59.6	26.0	27
STB-BSF-90C-1010-MC	16	10	5/8"	G 5/8"–14	64.1	27.0	30
STB-BSF-90C-1212-MC	19	12	3/4"	G 3/4"–14	74.8	32.0	32
STB-BSF-90C-1616-MC	25	16	1"	G 1"–11	92.2	36.0	38

STB - BPM (Swage Tail x BSP Parallel Male)

Swage nipple, AGR



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Short code:	AGR
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

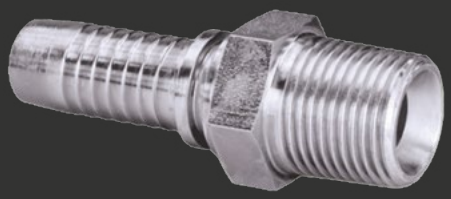
Identification	DN	Size	Inches	G1	L1 mm	S1
STB-BPM-0302-MC	5	3	3/16″	G 1/8″–28	42.5	14
STB-BPM-0304-MC	5	3	3/16″	G 1/4″–19	46.0	19
STB-BPM-0402-MC	6	4	1/4″	G 1/8″–28	48.5	14
STB-BPM-0404-MC	6	4	1/4″	G 1/4″–19	52.0	19
STB-BPM-0406-MC	6	4	1/4″	G 3/8″–19	54.0	22
STB-BPM-0408-MC	6	4	1/4″	G 1/2″–14	57.5	27
STB-BPM-0504-MC	8	5	5/16″	G 1/4″–19	52.0	19
STB-BPM-0506-MC	8	5	5/16″	G 3/8″–19	54.0	22
STB-BPM-0508-MC	8	5	5/16″	G 1/2″–14	57.5	27
STB-BPM-0602-MC	10	6	3/8″	G 1/8″–28	50.0	17
STB-BPM-0604-MC	10	6	3/8″	G 1/4″–19	53.5	19
STB-BPM-0606-MC	10	6	3/8″	G 3/8″–19	55.5	22
STB-BPM-0608-MC	10	6	3/8″	G 1/2″–14	59.5	27
STB-BPM-0806-MC	12	8	1/2″	G 3/8″–19	56.5	22
STB-BPM-0808-MC	12	8	1/2″	G 1/2″–14	60.5	27
STB-BPM-0810-MC	12	8	1/2″	G 5/8″–14	62.5	30
STB-BPM-0812-MC	12	8	1/2″	G 3/4″–14	62.5	32
STB-BPM-1008-MC	16	10	5/8″	G 1/2″–14	65.0	27
STB-BPM-1010-MC	16	10	5/8″	G 5/8″–14	67.0	30
STB-BPM-1012-MC	16	10	5/8″	G 3/4″–14	67.0	32
STB-BPM-1212-MC	19	12	3/4″	G 3/4″–14	73.5	32
STB-BPM-1216-MC	19	12	3/4″	G 1″–11	78.5	41
STB-BPM-1616-MC	25	16	1″	G 1″–11	86.5	41
STB-BPM-1620-MC	25	16	1″	G 1.1/4″–11	87.5	50
STB-BPM-2020-MC	31	20	1.1/4″	G 1.1/4″–11	97.0	50
STB-BPM-2024-MC	31	20	1.1/4″	G 1.1/2″–11	100.0	55
STB-BPM-2420-MC	38	24	1.1/2″	G 1.1/4″–11	100.5	50
STB-BPM-2424-MC	38	24	1.1/2″	G 1.1/2″–11	103.5	55
STB-BPM-2432-MC	38	24	1.1/2″	G 2″–11	109.0	70
STB-BPM-3232-MC	51	32	2″	G 2″–11	124.5	70

Product Version: Stainless Steel (SS)

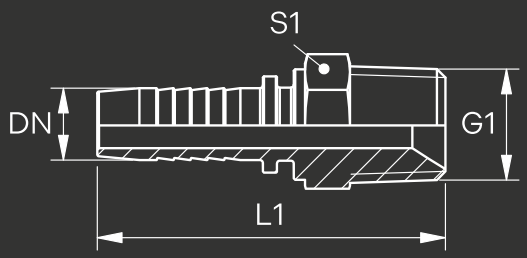
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STB - BTM (Swage Tail x BSP Taper Male)

Swage nipple, AGR - K



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Short code:	AGR - K
Material:	Steel
Surface:	MotusCoat™



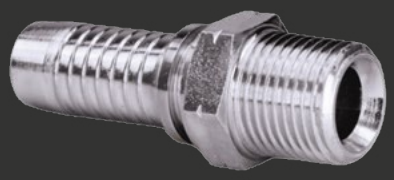
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
STB-BTM-0302-MC	5	3	3/16″	R 1/8″K	43.0	12
STB-BTM-0304-MC	5	3	3/16″	R 1/4″K	47.5	14
STB-BTM-0402-MC	6	4	1/4″	R 1/8″K	49.0	12
STB-BTM-0404-MC	6	4	1/4″	R 1/4″K	53.5	14
STB-BTM-0406-MC	6	4	1/4″	R 3/8″K	54.0	19
STB-BTM-0504-MC	8	5	5/16″	R 1/4″K	53.5	14
STB-BTM-0506-MC	8	5	5/16″	R 3/8″K	54.0	19
STB-BTM-0604-MC	10	6	3/8″	R 1/4″K	56.0	14
STB-BTM-0606-MC	10	6	3/8″	R 3/8″K	56.5	19
STB-BTM-0608-MC	10	6	3/8″	R 1/2″K	61.0	22
STB-BTM-0806-MC	12	8	1/2″	R 3/8″K	58.0	19
STB-BTM-0808-MC	12	8	1/2″	R 1/2″K	62.0	22
STB-BTM-0812-MC	12	8	1/2″	R 3/4″K	64.5	27
STB-BTM-1008-MC	16	10	5/8″	R 1/2″K	67.5	22
STB-BTM-1010-MC	16	10	5/8″	R 5/8″K	70.5	24
STB-BTM-1012-MC	16	10	5/8″	R 3/4″K	69.0	27
STB-BTM-1212-MC	19	12	3/4″	R 3/4″K	76.5	27
STB-BTM-1216-MC	19	12	3/4″	R 1″K	80.5	36
STB-BTM-1616-MC	25	16	1″	R 1″K	88.5	36
STB-BTM-1620-MC	25	16	1″	R 1.1/4″K	91.5	46
STB-BTM-2020-MC	31	20	1.1/4″	R 1.1/4″K	101.0	46
STB-BTM-2024-MC	31	20	1.1/4″	R 1.1/2″K	102.0	50
STB-BTM-2424-MC	38	24	1.1/2″	R 1.1/2″K	105.5	50
STB-BTM-2432-MC	38	24	1.1/2″	R 2″K	113.0	65
STB-BTM-3232-MC	51	32	2″	R 2″K	127.5	65

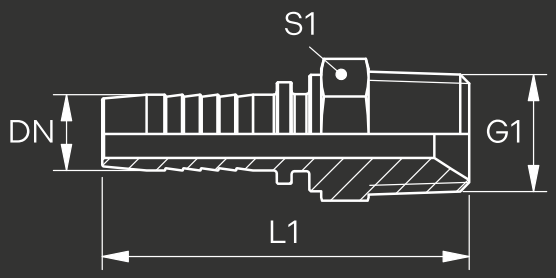
Product Version: Stainless Steel (SS)

STB - NTM (Swage Tail x NP Taper Male)

Swage nipple, AGN



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	NPT external threads
Sealing form 1:	Thread seal, additional 60° inner cone
Short code:	AGN
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
STB-NTM-0302-MC	5	3	3/16″	1/8″–27 NPT	44.0	12
STB-NTM-0304-MC	5	3	3/16″	1/4″–18 NPT	47.5	14
STB-NTM-0402-MC	6	4	1/4″	1/8″–27 NPT	50.0	12
STB-NTM-0404-MC	6	4	1/4″	1/4″–18 NPT	53.5	14
STB-NTM-0406-MC	6	4	1/4″	3/8″–18 NPT	54.0	19
STB-NTM-0504-MC	8	5	5/16″	1/4″–18 NPT	53.5	14
STB-NTM-0506-MC	8	5	5/16″	3/8″–18 NPT	54.0	19
STB-NTM-0604-MC	10	6	3/8″	1/4″–18 NPT	55.0	16
STB-NTM-0606-MC	10	6	3/8″	3/8″–18 NPT	56.5	19
STB-NTM-0608-MC	10	6	3/8″	1/2″–14 NPT	61.0	22
STB-NTM-0806-MC	12	8	1/2″	3/8″–18 NPT	57.5	19
STB-NTM-0808-MC	12	8	1/2″	1/2″–14 NPT	62.0	22
STB-NTM-0812-MC	12	8	1/2″	3/4″–14 NPT	64.5	27
STB-NTM-1008-MC	16	10	5/8″	1/2″–14 NPT	68.0	24
STB-NTM-1012-MC	16	10	5/8″	3/4″–14 NPT	68.0	27
STB-NTM-1208-MC	19	12	3/4″	1/2″–14 NPT	74.5	27
STB-NTM-1212-MC	19	12	3/4″	3/4″–14 NPT	76.5	27
STB-NTM-1216-MC	19	12	3/4″	1″–11.5 NPT	80.5	36
STB-NTM-1612-MC	25	16	1″	3/4″–14 NPT	84.5	36
STB-NTM-1616-MC	25	16	1″	1″–11.5 NPT	88.5	36
STB-NTM-1620-MC	25	16	1″	1.1/4″–11.5 NPT	91.5	46
STB-NTM-2020-MC	31	20	1.1/4″	1.1/4″–11.5 NPT	101.0	46
STB-NTM-2424-MC	38	24	1.1/2″	1.1/2″–11.5 NPT	105.5	50
STB-NTM-3232-MC	51	32	2″	2″–11.5 NPT	127.5	65

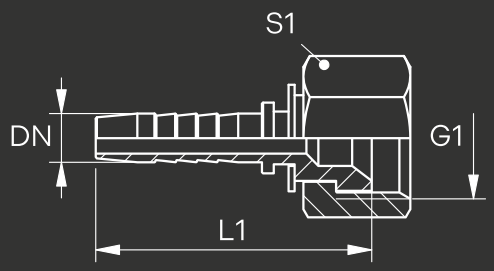
Product Version: Stainless Steel (SS)

STB - JIF (Swage Tail x JIC Swivel Female)

Swage nipple, DKJ



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN mm	Size	Inches	G1	L1 mm	S1 mm
STB-JIF-0304-MC	5	3	3/16″	7/16″-20 UNF	36.0	14
STB-JIF-0404-MC	6	4	1/4″	7/16″-20 UNF	42.0	14
STB-JIF-0405-MC	6	4	1/4″	1/2″-20 UNF	43.0	17
STB-JIF-0406-MC	6	4	1/4″	9/16″-18 UNF	44.5	19
STB-JIF-0505-MC	8	5	5/16″	1/2″-20 UNF	43.0	17
STB-JIF-0506-MC	8	5	5/16″	9/16″-18 UNF	45.0	19
STB-JIF-0508-MC	8	5	5/16″	3/4″-16 UNF	46.5	24
STB-JIF-0605-MC	10	6	3/8″	1/2″-20 UNF	47.0	17
STB-JIF-0606-MC	10	6	3/8″	9/16″-18 UNF	46.0	19
STB-JIF-0608-MC	10	6	3/8″	3/4″-16 UNF	48.5	24
STB-JIF-0610-MC	10	6	3/8″	7/8″-14 UNF	49.5	27
STB-JIF-0806-MC	12	8	1/2″	9/16″-18 UNF	49.0	19
STB-JIF-0808-MC	12	8	1/2″	3/4″-16 UNF	48.0	24
STB-JIF-0810-MC	12	8	1/2″	7/8″-14 UNF	50.5	27
STB-JIF-0812-MC	12	8	1/2″	1.1/16″–12 UN	51.0	32
STB-JIF-1010-MC	16	10	5/8″	7/8″-14 UNF	53.5	27
STB-JIF-1012-MC	16	10	5/8″	1.1/16″–12 UN	56.0	32
STB-JIF-1214-MC	19	12	3/4″	1.3/16″–12 UN	64.0	36
STB-JIF-1210-MC	19	12	3/4″	7/8″-14 UNF	62.5	27
STB-JIF-1212-MC	19	12	3/4″	1.1/16″–12 UN	63.0	32
STB-JIF-1216-MC	19	12	3/4″	1.5/16″–12 UN	64.0	41

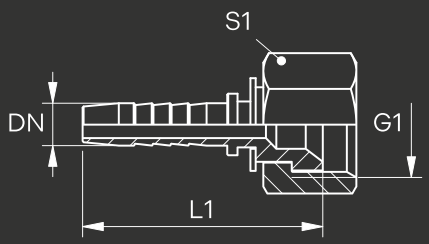
Product Version: Stainless Steel (SS)

STB - JIF (Swage Tail x JIC Swivel Female)

Swage nipple, DKJ



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN mm	Size	Inches	G1	L1 mm	S1 mm
STB-JIF-1612-MC	25	16	1″	1.1/16″–12 UN	71.0	32
STB-JIF-1616-MC	25	16	1″	1.5/16″–12 UN	72.0	41
STB-JIF-1620-MC	25	16	1″	1.5/8″–12 UN	74.0	50
STB-JIF-2016-MC	31	20	1.1/4″	1.5/16″–12 UN	83.5	41
STB-JIF-2020-MC	31	20	1.1/4″	1.5/8″–12 UN	82.0	50
STB-JIF-2024-MC	31	20	1.1/4″	1.7/8″–12 UN	84.0	60
STB-JIF-2420-MC	38	24	1.1/2″	1.5/8″–12 UN	88.0	50
STB-JIF-2424-MC	38	24	1.1/2″	1.7/8″–12 UN	87.5	60
STB-JIF-3232-MC	51	32	2″	2.1/2″–12 UN	108.0	75

Product Version: Stainless Steel (SS)

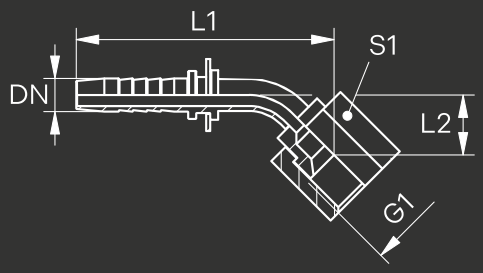
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STB - JIF (Swage Tail x JIC Swivel Female) 45

Swage nipple, DKJ angle 45°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
STB-JIF-45S-0304-MC	5	3	3/16"	7/16"-20 UNF	54.5	12.5	14
STB-JIF-45S-0404-MC	6	4	1/4"	7/16"-20 UNF	61.5	14.0	14
STB-JIF-45S-0405-MC	6	4	1/4"	1/2"-20 UNF	62.0	13.5	17
STB-JIF-45S-0406-MC	6	4	1/4"	9/16"-18 UNF	62.5	14.0	19
STB-JIF-45S-0505-MC	8	5	5/16"	1/2"-20 UNF	68.5	18.5	17
STB-JIF-45S-0506-MC	8	5	5/16"	9/16"-18 UNF	64.0	15.0	19
STB-JIF-45S-0605-MC	10	6	3/8"	1/2"-20 UNF	73.0	18.5	17
STB-JIF-45S-0606-MC	10	6	3/8"	9/16"-18 UNF	70.5	17.5	19
STB-JIF-45S-0608-MC	10	6	3/8"	3/4"-16 UNF	72.0	19.0	24
STB-JIF-45S-0610-MC	10	6	3/8"	7/8"-14 UNF	72.5	19.5	27
STB-JIF-45S-0808-MC	12	8	1/2"	3/4"-16 UNF	80.5	20.5	24
STB-JIF-45S-0810-MC	12	8	1/2"	7/8"-14 UNF	81.5	21.5	27
STB-JIF-45S-0812-MC	12	8	1/2"	1.1/16"–12 UN	82.5	22.5	32
STB-JIF-45S-1010-MC	16	10	5/8"	7/8"-14 UNF	96.5	27	27
STB-JIF-45S-1012-MC	16	10	5/8"	1.1/16"–12 UN	97.0	26.0	32
STB-JIF-45S-1014-MC	16	10	5/8"	1.3/16"–12 UN	93.5	30.0	36
STB-JIF-45S-1212-MC	19	12	3/4"	1.1/16"–12 UN	108.0	28.5	32
STB-JIF-45S-1214-MC	19	12	3/4"	1.3/16"–12 UN	108.5	29.0	36
STB-JIF-45S-1216-MC	19	12	3/4"	1.5/16"–12 UN	108.5	29.0	41
STB-JIF-45S-1614-MC	25	16	1"	1.3/16"–12 UN	117.5	32.5	36
STB-JIF-45S-1616-MC	25	16	1"	1.5/16"–12 UN	134.5	32.5	41
STB-JIF-45S-1620-MC	25	16	1"	1.5/8"–12 UN	135.5	34.0	50
STB-JIF-45S-2020-MC	31	20	1.1/4"	1.5/8"–12 UN	161.0	41.0	50
STB-JIF-45S-2024-MC	31	20	1.1/4"	1.7/8"–12 UN	162.0	42.0	60
STB-JIF-45S-2424-MC	38	24	1.1/2"	1.7/8"–12 UN	184.5	46.5	60
STB-JIF-45S-3232-MC	51	32	2"	2.1/2"–12 UN	231.0	67.0	75

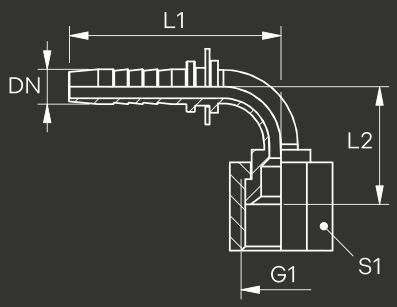
Product Version: Stainless Steel (SS)

STB - JIF (Swage Tail x JIC Swivel Female) 90

Swage nipple, DKJ angle 90°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
STB-JIF-90S-0304-MC	5	3	3/16″	7/16″-20 UNF	47.5	26.0	14
STB-JIF-90S-0404-MC	6	4	1/4″	7/16″-20 UNF	57.0	26.0	14
STB-JIF-90S-0405-MC	6	4	1/4″	1/2″-20 UNF	57.0	27.0	17
STB-JIF-90S-0406-MC	6	4	1/4″	9/16″-18 UNF	57.0	28.0	19
STB-JIF-90S-0505-MC	8	5	5/16″	1/2″-20 UNF	56.5	33.0	17
STB-JIF-90S-0506-MC	8	5	5/16″	9/16″-18 UNF	57.5	30.5	19
STB-JIF-90S-0605-MC	10	6	3/8″	1/2″-20 UNF	66.5	37.5	17
STB-JIF-90S-0606-MC	10	6	3/8″	9/16″-18 UNF	63.0	35.0	19
STB-JIF-90S-0608-MC	10	6	3/8″	3/4″-16 UNF	63.0	37.0	24
STB-JIF-90S-0610-MC	10	6	3/8″	7/8″-14 UNF	63.0	38.0	27
STB-JIF-90S-0808-MC	12	8	1/2″	3/4″-16 UNF	71.5	42.5	24
STB-JIF-90S-0810-MC	12	8	1/2″	7/8″-14 UNF	71.5	43.5	27
STB-JIF-90S-0812-MC	12	8	1/2″	1.1/16″–12 UN	71.5	45.0	32
STB-JIF-90S-1010-MC	16	10	5/8″	7/8″-14 UNF	87.0	54.0	27
STB-JIF-90S-1012-MC	16	10	5/8″	1.1/16″–12 UN	87.0	54.5	32
STB-JIF-90S-1212-MC	19	12	3/4″	1.1/16″–12 UN	99.0	57.5	32
STB-JIF-90S-1214-MC	19	12	3/4″	1.3/16″–12 UN	108.5	69.5	36
STB-JIF-90S-1216-MC	19	12	3/4″	1.5/16″–12 UN	99.0	58.5	41
STB-JIF-90S-1614-MC	25	16	1″	1.3/16″–12 UN	108.5	69.5	36
STB-JIF-90S-1616-MC	25	16	1″	1.5/16″–12 UN	126.0	70.5	41
STB-JIF-90S-1620-MC	25	16	1″	1.5/8″–12 UN	126.0	72.5	50
STB-JIF-90S-2020-MC	31	16	1.1/4″	1.5/8″–12 UN	150.5	86.0	50
STB-JIF-90S-2024-MC	31	20	1.1/4″	1.7/8″–12 UN	150.5	87.0	60
STB-JIF-90S-2424-MC	38	24	1.1/2″	1.7/8″–12 UN	175.5	100.5	60
STB-JIF-90S-3232-MC	51	32	2″	2.1/2″–12 UN	216.5	135.0	75

Product Version: Stainless Steel (SS)

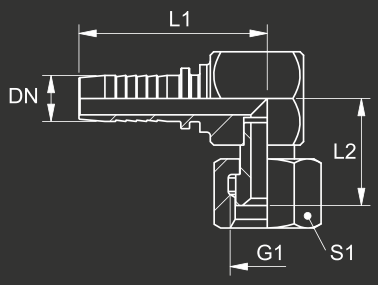
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STB - JIF-90C (Swage Tailx JIC Swivel Female Compact 90)

Swage nipple, DKJ Comp. angle 90°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Supplementary design information:	Compact form
Short code:	DKJ - K
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

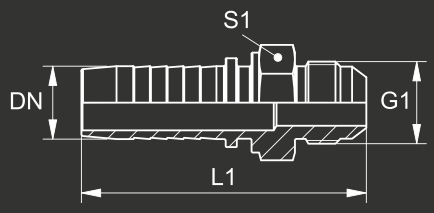
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
STB-JIF-90C-0404-MC	6	4	1/4"	7/16"-20 UNF	50.0	17.0	14
STB-JIF-90C-0405-MC	6	4	1/4"	1/2"-20 UNF	51.1	19.0	17
STB-JIF-90C-0406-MC	6	4	1/4"	9/16"-18 UNF	53.5	20.0	19
STB-JIF-90C-0506-MC	8	5	5/16"	9/16"-18 UNF	54.0	20.0	19
STB-JIF-90C-0606-MC	10	6	3/8"	9/16"-18 UNF	55.5	20.0	19
STB-JIF-90C-0608-MC	10	6	3/8"	3/4"-16 UNF	57.6	21.0	24
STB-JIF-90C-0808-MC	12	8	1/2"	3/4"-16 UNF	59.6	21.0	24
STB-JIF-90C-0810-MC	12	8	1/2"	7/8"-14 UNF	59.6	25.0	27
STB-JIF-90C-1010-MC	16	10	5/8"	7/8"-14 UNF	64.1	25.0	27
STB-JIF-90C-1012-MC	16	10	5/8"	1.1/16"–12 UN	69.8	28.0	32
STB-JIF-90C-1212-MC	19	12	3/4"	1.1/16"–12 UN	74.8	28.0	32
STB-JIF-90C-1616-MC	25	16	1"	1.5/16"–12 UN	92.2	34.0	41

STB - JIM (Swage Tail x JIC Male)

Swage nipple, AGJ



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	UN / UNF external threads
Sealing form 1:	74° outer cone
Short code:	AGJ
Standard:	ISO 8434-2
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
STB-JIM-0304-MC	5	3	3/16″	7/16″-20 UNF	47.5	14
STB-JIM-0404-MC	6	4	1/4″	7/16″-20 UNF	53.5	14
STB-JIM-0405-MC	6	4	1/4″	1/2″-20 UNF	54.0	17
STB-JIM-0406-MC	6	4	1/4″	9/16″-18 UNF	53.5	17
STB-JIM-0505-MC	8	5	5/16″	1/2″-20 UNF	53.5	14
STB-JIM-0506-MC	8	5	5/16″	9/16″-18 UNF	53.5	19
STB-JIM-0508-MC	8	5	5/16″	3/4″-16 UNF	58.5	22
STB-JIM-0605-MC	10	6	3/8″	1/2″-20 UNF	55.0	17
STB-JIM-0606-MC	10	6	3/8″	9/16″-18 UNF	55.5	19
STB-JIM-0608-MC	10	6	3/8″	3/4″-16 UNF	59.0	22
STB-JIM-0610-MC	10	6	3/8″	7/8″-14 UNF	62.5	24
STB-JIM-0805-MC	12	8	1/2″	3/4″-16 UNF	60.0	22
STB-JIM-0810-MC	12	8	1/2″	7/8″-14 UNF	63.5	24
STB-JIM-0812-MC	12	8	1/2″	1.1/16″–12 UN	67.5	27
STB-JIM-1010-MC	16	10	5/8″	7/8″-14 UNF	68.0	24
STB-JIM-1012-MC	16	10	5/8″	1.1/16″–12 UN	72.0	32
STB-JIM-1014-MC	16	10	5/8″	1.3/16″–12 UN	74.5	36
STB-JIM-1210-MC	19	12	3/4″	7/8″-14 UNF	77.0	27
STB-JIM-1212-MC	19	12	3/4″	1.1/16″–12 UN	79.0	27
STB-JIM-1214-MC	19	12	3/4″	1.3/16″–12 UN	79.5	32
STB-JIM-1216-MC	19	12	3/4″	1.5/16″–12 UN	80.0	34
STB-JIM-1612-MC	25	16	1″	1.1/16″–12 UN	87.0	34
STB-JIM-1614-MC	25	16	1″	1.3/16″–12 UN	89.0	36
STB-JIM-1616-MC	25	16	1″	1.5/16″–12 UN	88.5	36
STB-JIM-1620-MC	25	16	1″	1.5/8″–12 UN	90.0	42
STB-JIM-2020-MC	31	20	1.1/4″	1.5/8″–12 UN	100.5	46
STB-JIM-2024-MC	31	20	1.1/4″	1.7/8″–12 UN	105.0	50
STB-JIM-2424-MC	38	24	1.1/2″	1.7/8″–12 UN	109.0	50
STB-JIM-3232-MC	51	32	2″	2.1/2″–12 UN	133.5	65

Product Version: Stainless Steel (SS)

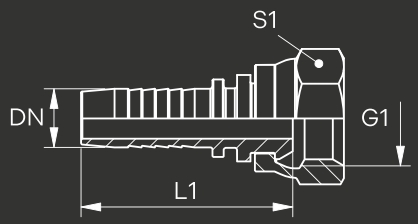
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STB - ORF (Swage Tail x ORFS Swivel Female)

Swage nipple, ORFS



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	UN / UNF nut threads
Sealing form 1:	Flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
STB-ORF-0409-MC	6	4	1/4″	9/16″-18 UNF	49.5	17
STB-ORF-0411-MC	6	4	1/4″	11/16″–16 UN	51.5	22
STB-ORF-0511-MC	8	5	5/16″	11/16″–16 UN	51.5	22
STB-ORF-0611-MC	10	6	3/8″	11/16″–16 UN	53.0	22
STB-ORF-0613-MC	10	6	3/8″	13/16″–16 UN	56.0	24
STB-ORF-0813-MC	12	8	1/2″	13/16″–16 UN	57.0	24
STB-ORF-0816-MC	12	8	1/2″	1″–14 UNS	61.0	30
STB-ORF-0819-MC	12	8	1/2″	1.3/16″–12 UN	65.5	36
STB-ORF-1016-MC	16	10	5/8″	1″–14 UNS	65.5	30
STB-ORF-1019-MC	16	10	5/8″	1.3/16″–12 UN	70.0	36
STB-ORF-1216-MC	19	12	3/4″	1″–14 UNS	76.0	30
STB-ORF-1219-MC	19	12	3/4″	1.3/16″–12 UN	74.5	36
STB-ORF-1223-MC	19	12	3/4″	1.7/16″–12 UN	77.5	41
STB-ORF-1623-MC	25	16	1″	1.7/16″–12 UN	83.5	41
STB-ORF-2027-MC	31	20	1.1/4″	1.11/16″–12 UN	92.5	50
STB-ORF-2432-MC	38	24	1.1/2″	2″–12 UN	96.0	60

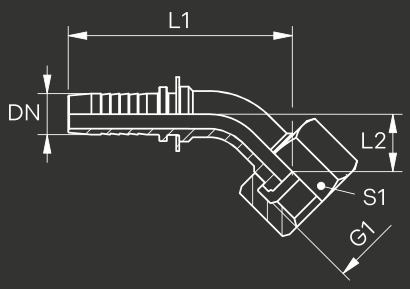
Product Version: Stainless Steel (SS)

STB - ORF (Swage Tail x ORFS Swivel Female) 45

Swage nipple, ORFS angle 45°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	UN / UNF nut threads
Sealing form 1:	Flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

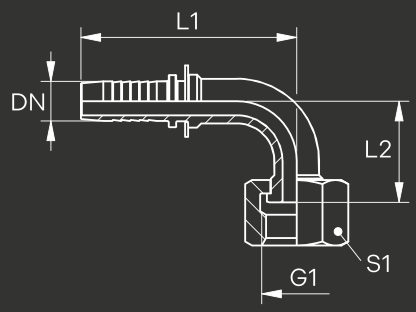
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
STB-ORF-45S-0409-MC	6	4	1/4"	9/16"-18 UNF	60.0	12.0	17
STB-ORF-45S-0411-MC	6	4	1/4"	11/16"–16 UN	61.0	13.5	22
STB-ORF-45S-0511-MC	8	5	5/16"	11/16"–16 UN	80.0	21.0	22
STB-ORF-45S-0611-MC	10	6	3/8"	11/16"–16 UN	69.0	16.0	22
STB-ORF-45S-0613-MC	10	6	3/8"	13/16"–16 UN	69.5	16.5	24
STB-ORF-45S-0813-MC	12	8	1/2"	13/16"–16 UN	78.0	17.0	24
STB-ORF-45S-0816-MC	12	8	1/2"	1"–14 UNS	80.5	19.5	30
STB-ORF-45S-1016-MC	16	10	5/8"	1"–14 UNS	93.5	22.5	30
STB-ORF-45S-1219-MC	19	12	3/4"	1.3/16"–12 UN	104.0	25.0	36
STB-ORF-45S-1623-MC	25	16	1"	1.7/16"–12 UN	130.5	27.5	41
STB-ORF-45S-2027-MC	31	20	1.1/4"	1.11/16"–12 UN	155.0	34.0	50
STB-ORF-45S-2432-MC	38	24	1.1/2"	2"–12 UN	177.0	38.0	60

STB - ORF (Swage Tail x ORFS Swivel Female) 90

Swage nipple, ORFS angle 90°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	UN / UNF nut threads
Sealing form 1:	Flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

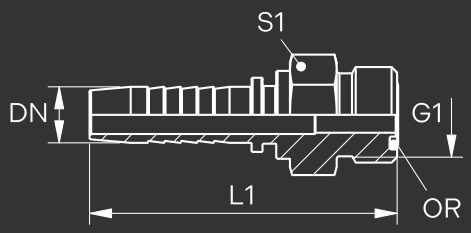
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
STB-ORF-90S-0409-MC	6	4	1/4"	9/16"-18 UNF	55.0	26.5	17
STB-ORF-90S-0409 DL58-MC	6	4	1/4"	9/16"-18 UNF	55.0	58.0	17
STB-ORF-90S-0411-MC	6	4	1/4"	11/16"–16 UN	55.0	28.0	22
STB-ORF-90S-0511-MC	8	5	5/16"	11/16"–16 UN	58.0	28.0	22
STB-ORF-90S-0611-MC	10	6	3/8"	11/16"–16 UN	64.0	32.0	22
STB-ORF-90S-0611 DL69-MC	10	6	3/8"	11/16"–16 UN	64.0	69.0	22
STB-ORF-90S-0613-MC	10	6	3/8"	13/16"–16 UN	64.0	33.0	24
STB-ORF-90S-0813-MC	12	8	1/2"	13/16"–16 UN	72.5	37.0	24
STB-ORF-90S-0813 DL82-MC	12	8	1/2"	13/16"–16 UN	72.5	82.0	24
STB-ORF-90S-0816-MC	12	8	1/2"	1"–14 UNS	72.5	41.0	30
STB-0RF-90S-0819-MC	12	8	1/2"	1.3/16"–12 UN	71.5	43.5	36
STB-ORF-90S-1016-MC	16	10	5/8"	1"–14 UNS	88.0	47.5	30
STB-ORF-90S-1016 DL94-MC	16	10	5/8"	1"–14 UNS	88.0	94.0	30
STB-ORF-90S-1019-MC	16	10	5/8"	1.3/16"–12 UN	89.5	49.0	36
STB-ORF-90S-1212-MC	19	12	3/4"	1.3/16"–12 UN	99.5	52.0	36
STB-ORF-90S-1212 DL96-MC	19	12	3/4"	1.3/16"–12 UN	99.5	96.0	36
STB-ORF-90S-1223-MC	19	12	3/4"	1.7/16"–12 UN	98.5	56.0	41
STB-ORF-90S-1623-MC	25	16	1"	1.7/16"–12 UN	127.0	63.5	41
STB-ORF-90S-1623 DL114-MC	25	16	1"	1.7/16"–12 UN	127.0	114.0	41
STB-ORF-90S-2027-MC	31	20	1.1/4"	1.11/16"–12 UN	151.5	76.0	50
STB-ORF-90S-2027 DL129-MC	31	20	1.1/4"	1.11/16"–12 UN	151.5	129.0	50
STB-ORF-90S-2432-MC	38	24	1.1/2"	2"–12 UN	176.5	89.0	60
STB-ORF-90S-2432 DL146-MC	38	24	1.1/2"	2"–12 UN	176.5	146.0	60

STB - ORM (Swage Tail x ORFS Male)

Swage nipple, ORFS



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	UN / UNF external threads
Sealing form 1:	Flat seal with O-ring
Short code:	ORFS
Standard:	ISO 8434-3
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
STB-ORM-0409-MC	6	4	1/4"	9/16"-18 UNF	52.5	17	7.65 x 1.78
STB-ORM-0411-MC	6	4	1/4"	11/16"–16 UN	54.0	19	9.25 x 1.78
STB-ORM-0511-MC	8	5	5/16"	11/16"–16 UN	54.0	19	9.25 x 1.78
STB-ORM-0611-MC	10	6	3/8"	11/16"–16 UN	56.0	19	9.25 x 1.78
STB-ORM-0613-MC	10	6	3/8"	13/16"–16 UN	58.5	22	12.42 x 1.78
STB-ORM-0616-MC	10	6	3/8"	1"–14 UNS	62.0	27	15.60 x 1.78
STB-ORM-0813-MC	12	8	1/2"	13/16"–16 UN	60.0	22	12.42 x 1.78
STB-ORM-0816-MC	12	8	1/2"	1"–14 UNS	63.5	27	15.60 x 1.78
STB-ORM-0819-MC	12	8	1/2"	1.3/16"–12 UN	66.5	32	18.77 x 1.78
STB-ORM-1016-MC	16	10	5/8"	1"–14 UNS	68.0	27	15.60 x 1.78
STB-ORM-1019-MC	16	10	5/8"	1.3/16"–12 UN	71.0	32	18.77 x 1.78
STB-ORM-1219-MC	19	12	3/4"	1.3/16"–12 UN	78.0	32	18.77 x 1.78
STB-ORM-1223-MC	19	12	3/4"	1.7/16"–12 UN	82.5	41	23.52 x 1.78
STB-ORM-1623-MC	25	16	1"	1.7/16"–12 UN	90.5	41	23.52 x 1.78
STB-ORM-2027-MC	31	20	1.1/4"	1.11/16"–12 UN	101.5	46	29.87 x 1.78
STB-ORM-2432-MC	38	24	1.1/2"	2"–12 UN	109.0	55	37.82 x 1.78

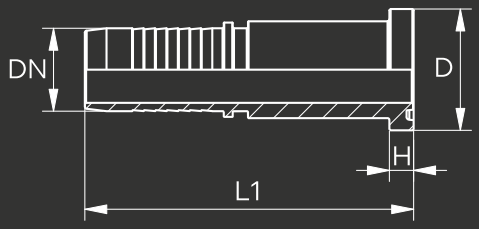
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STB - F61 (Swage Tail x Code 61 Flange)

Swage nipple, SFL



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
STB-F61-0808-MC	12	8	1/2″	1/2″	30.2	6.80	80.5
STB-F61-0812-MC	12	8	1/2″	3/4″	38.1	6.80	85.5
STB-F61-1008-MC	16	10	5/8″	1/2″	30.2	6.80	85.0
STB-F61-1012-MC	16	10	5/8″	3/4″	38.1	6.80	90.0
STB-F61-1016-MC	16	10	5/8″	1″	44.4	8.10	97.5
STB-F61-1212-MC	19	12	3/4″	3/4″	38.1	6.80	96.5
STB-F61-1216-MC	19	12	3/4″	1″	44.4	8.10	99.5
STB-F61-1612-MC	25	16	1″	3/4″	38.1	6.80	104.5
STB-F61-1616-MC	25	16	1″	1″	44.4	8.10	110.5
STB-F61-1620-MC	25	16	1″	1.1/4″	50.8	8.10	113.5
STB-F61-2016-MC	31	20	1.1/4″	1″	44.4	8.10	118.0
STB-F61-2020-MC	31	20	1.1/4″	1.1/4″	50.8	8.10	125.5
STB-F61-2024-MC	31	20	1.1/4″	1.1/2″	60.3	8.10	128.5
STB-F61-2420-MC	38	24	1.1/2″	1.1/4″	50.8	8.10	129.0
STB-F61-2424-MC	38	24	1.1/2″	1.1/2″	60.3	8.10	135.0
STB-F61-2432-MC	38	24	1.1/2″	2″	71.4	9.60	138.0
STB-F61-3224-MC	51	32	2″	1.1/2″	60.3	8.10	149.5
STB-F61-3232-MC	51	32	2″	2″	71.4	9.60	153.0

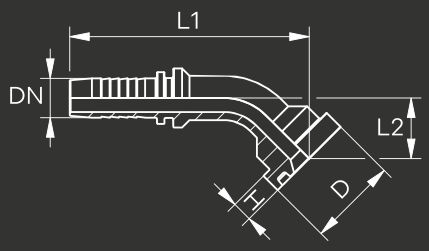
Product Version: Stainless Steel (SS)

STB - F61 (Swage Tail x Code 61 Flange) 45

Swage nipple, SFL angle 45°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STB-F61-45S-0808-MC	12	8	1/2″	1/2″	30.2	6.80	81.0	21.0
STB-F61-45S-0812-MC	12	8	1/2″	3/4″	38.1	6.80	84.5	24.5
STB-F61-45S-1008-MC	16	10	5/8″	1/2″	30.2	6.80	100.0	26.5
STB-F61-45S-1012-MC	16	10	5/8″	3/4″	38.1	6.80	96.5	27.5
STB-F61-45S-1212-MC	19	12	3/4″	3/4″	38.1	6.80	107.5	28.0
STB-F61-45S-1216-MC	19	12	3/4″	1″	44.4	8.10	109.5	30.0
STB-F61-45S-1612-MC	25	16	1″	3/4″	38.1	6.70	128.0	30.0
STB-F61-45S-1616-MC	25	16	1″	1″	44.4	8.00	132.0	30.5
STB-F61-45S-1620-MC	25	16	1″	1.1/4″	50.8	8.10	134.0	32.0
STB-F61-45S-2016-MC	31	20	1.1/4″	1″	44.4	8.10	156.0	41.0
STB-F61-45S-2020-MC	31	20	1.1/4″	1.1/4″	50.8	8.10	156.0	36.0
STB-F61-45S-2024-MC	31	20	1.1/4″	1.1/2″	60.3	8.10	160.0	40.0
STB-F61-45S-2424-MC	38	24	1.1/2″	1.1/2″	60.3	8.10	184.0	46.0
STB-F61-45S-2432-MC	38	24	1.1/2″	2″	71.4	9.60	184.0	46.0
STB-F61-45S-3224-MC	51	32	2″	1.1/2″	60.3	8.10	182.0	42.0
STB-F61-45S-3232-MC	51	32	2″	2″	71.4	9.60	219.0	50.0

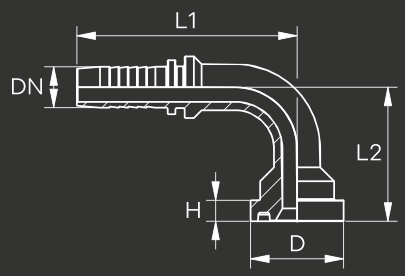
Product Version: Stainless Steel (SS)

STB - F61 (Swage Tail x Code 61 Flange) 90

Swage nipple, SFL angle 90°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STB-F61-90S-0808-MC	12	8	1/2″	1/2″	30.2	6.80	71.5	43.5
STB-F61-90S-0812-MC	12	8	1/2″	3/4″	38.1	6.80	71.5	48.5
STB-F61-90S-0816-MC	12	8	1/2″	1″	44.5	8.10	94.0	65.0
STB-F61-90S-1008-MC	16	10	5/8″	1/2″	30.2	6.80	91.0	56.0
STB-F61-90S-1012-MC	16	10	5/8″	3/4″	38.1	6.80	87.0	55.0
STB-F61-90S-1016-MC	16	10	5/8″	1″	44.5	8.10	106.0	66.0
STB-F61-90S-1212-MC	19	12	3/4″	3/4″	38.1	6.80	99.0	57.0
STB-F61-90S-1216-MC	19	12	3/4″	1″	44.5	8.10	99.0	60.0
STB-F61-90S-1220-MC	19	12	3/4″	1.1/4″	50.8	8.10	121.0	74.0
STB-F61-90S-1612-MC	25	16	1″	3/4″	38.1	6.80	115.0	66.0
STB-F61-90S-1616-MC	25	16	1″	1″	44.5	8.10	126.0	67.5
STB-F61-90S-1620-MC	25	16	1″	1.1/4″	50.8	8.10	126.0	70.0
STB-F61-90S-1624-MC	25	16	1″	1.1/2″	60.3	8.10	148.0	95.0
STB-F61-90S-2016-MC	31	20	1.1/4″	1″	44.5	8.10	134.0	74.0
STB-F61-90S-2020-MC	31	20	1.1/4″	1.1/4″	50.8	8.10	150.5	79.0
STB-F61-90S-2020 DL88-MC	31	20	1.1/4″	1.1/4″	50.8	8.10	150.5	88.0
STB-F61-90S-2020 DL120-MC	31	20	1.1/4″	1.1/4″	50.8	8.10	150.5	120.0
STB-F61-90S-2024-MC	31	20	1.1/4″	1.1/2″	60.3	8.10	150.5	84.5
STB-F61-90S-2424-MC	38	24	1.1/2″	1.1/2″	60.3	8.10	169.0	99.0
STB-F61-90S-2424 DL80-MC	38	24	1.1/2″	1.1/2″	60.3	8.10	169.0	80.0
STB-F61-90S-2424 DL124-MC	38	24	1.1/2″	1.1/2″	60.3	8.10	169.0	124.0
STB-F61-90S-2424 DL144-MC	38	24	1.1/2″	1.1/2″	60.3	8.10	169.0	144.0
STB-F61-90S-2424 DL150-MC	38	24	1.1/2″	1.1/2″	60.3	8.10	169.0	150.0
STB-F61-90S-2432-MC	38	24	1.1/2″	2″	71.4	9.60	175.5	100.0
STB-F61-90S-2432 DL150-MC	38	24	1.1/2″	2″	71.4	9.60	175.5	150.0

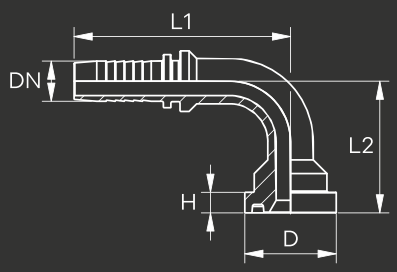
Product Version: Stainless Steel (SS)

STB - F61 (Swage Tail x Code 61 Flange) 90

Swage nipple, SFL angle 90°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STB-F61-90S-3224-MC	51	32	2″	1.1/2″	60.3	8.10	197.0	116.0
STB-F61-90S-3224 DL115-MC	51	32	2″	1.1/2″	60.3	8.10	197.0	115.0
STB-F61-90S-3232-MC	51	32	2″	2″	71.4	9.60	219.5	115.5

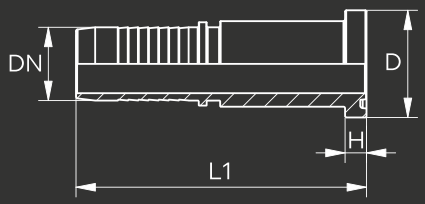
Product Version: Stainless Steel (SS)

STB - F62 (Swage Tail x Code 62 Flange)

Swage nipple, SFS



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Material:	Steel
Surface:	MotusCoat™



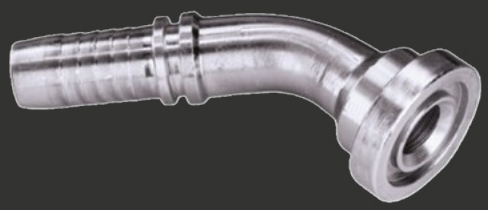
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
STB-F62-0808-MC	12	8	1/2″	1/2″	31.8	7.8	81.5
STB-F62-0812-MC	12	8	1/2″	3/4″	41.3	8.8	89.5
STB-F62-1008-MC	16	10	5/8″	1/2″	31.8	7.8	86.0
STB-F62-1012-MC	16	10	5/8″	3/4″	41.3	8.8	97.0
STB-F62-1016-MC	16	10	5/8″	1″	47.6	9.6	104.0
STB-F62-1208-MC	19	12	3/4″	1/2″	31.8	7.8	93.5
STB-F62-1212-MC	19	12	3/4″	3/4″	41.3	8.8	104.5
STB-F62-1216-MC	19	12	3/4″	1″	47.6	9.6	109.0
STB-F62-1612-MC	25	16	1″	3/4″	41.3	8.8	112.5
STB-F62-1616-MC	25	16	1″	1″	47.6	9.6	121.5
STB-F62-1620-MC	25	16	1″	1.1/4″	54.0	10.4	126.0
STB-F62-2016-MC	31	20	1.1/4″	1″	47.6	9.6	131.5
STB-F62-2020-MC	31	20	1.1/4″	1.1/4″	54.0	10.4	138.0
STB-F62-2024-MC	31	20	1.1/4″	1.1/2″	63.5	12.7	142.5
STB-F62-2424-MC	38	24	1.1/2″	1.1/2″	63.5	12.7	150.5
STB-F62-2420-MC	38	24	1.1/2″	1.1/4″	54.0	10.4	141.5
STB-F62-2432-MC	38	24	1.1/2″	2″	79.4	12.7	155.0
STB-F62-3232-MC	51	32	2″	2″	79.4	12.7	174.0

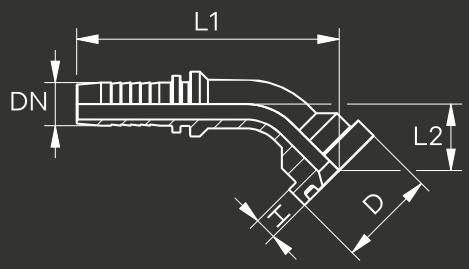
Product Version: Stainless Steel (SS)

STB - F62 (Swage Tail x Code 62 Flange) 45

Swage nipple, SFS angle 45°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STB-F62-45S-0808-MC	12	8	1/2″	1/2″	31.8	7.8	82.0	22.0
STB-F62-45S-0812-MC	12	8	1/2″	3/4″	41.3	8.8	87.5	27.5
STB-F62-45S-1008-MC	16	10	5/8″	1/2″	31.8	7.8	105.0	29.0
STB-F62-45S-1012-MC	16	10	5/8″	3/4″	41.3	8.8	100.5	30.5
STB-F62-45S-1016-MC	16	10	5/8″	1″	47.6	9.6	123.0	33.0
STB-F62-45S-1212-MC	19	12	3/4″	3/4″	41.3	8.8	110.0	30.5
STB-F62-45S-1216-MC	19	12	3/4″	1″	47.6	9.6	114.5	35.0
STB-F62-45S-1612-MC	25	16	1″	3/4″	41.3	8.8	129.0	31.0
STB-F62-45S-1616-MC	25	16	1″	1″	47.6	9.6	137.0	35.5
STB-F62-45S-1620-MC	25	16	1″	1.1/4″	54.0	10.4	142.0	40.5
STB-F62-45S-2020-MC	31	20	1.1/4″	1.1/4″	54.0	10.4	164.0	44.0
STB-F62-45S-2024-MC	31	20	1.1/4″	1.1/2″	63.5	12.7	170.0	50.5
STB-F62-45S-2420-MC	38	24	1.1/2″	1.1/4″	54.0	10.4	168.5	44.0
STB-F62-45S-2424-MC	38	24	1.1/2″	1.1/2″	63.5	12.7	190.0	52.0
STB-F62-45S-2432-MC	38	24	1.1/2″	2″	79.4	12.7	201.0	63.5
STB-F62-45S-3232-MC	51	32	2″	2″	79.4	12.7	236.0	67.5

Product Version: Stainless Steel (SS)

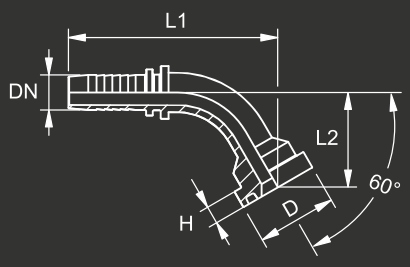
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STB - F62 (Swage Tail x Code 62 Flange) 60

Swage nipple, SFS angle 60°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

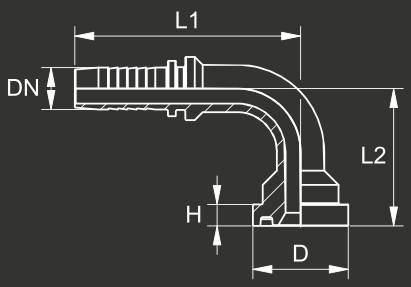
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STB-F62-60S-1216 DL80-MC	19	12	3/4"	1"	47.6	9.5	141.0	80.0

STB - F62 (Swage Tail x Code 62 Flange) 90

Swage nipple, SFS angle 90°



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

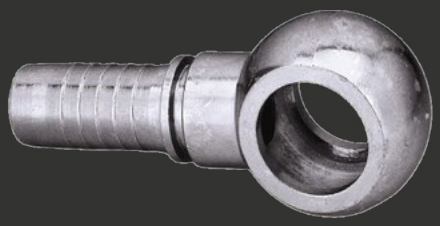
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STB-F62-90S-0808-MC	12	8	1/2″	1/2″	31.8	7.8	71.5	44.5
STB-F62-90S-0812-MC	12	8	1/2″	3/4″	41.3	8.8	71.5	52.5
STB-F62-90S-1008-MC	16	10	5/8″	1/2″	31.8	7.8	91.0	60.0
STB-F62-90S-1012-MC	16	10	5/8″	3/4″	41.3	8.8	87.0	59.0
STB-F62-90S-1016-MC	16	10	5/8″	1″	47.6	9.6	106.0	72.0
STB-F62-90S-1208-MC	19	12	3/4″	1/2″	31.8	7.8	97.0	61.0
STB-F62-90S-1212-MC	19	12	3/4″	3/4″	41.3	8.8	99.0	61.0
STB-F62-90S-1216-MC	19	12	3/4″	1″	47.6	9.6	99.0	67.0
STB-F62-90S-1612-MC	25	16	1″	3/4″	41.3	8.8	115.0	67.0
STB-F62-90S-1616-MC	25	16	1″	1″	47.6	9.6	126.0	74.5
STB-F62-90S-1620-MC	25	16	1″	1.1/4″	54.0	10.4	126.0	81.5
STB-F62-90S-2016-MC	31	20	1.1/4″	1″	47.6	9.6	134.0	79.0
STB-F62-90S-2020 DL80-MC	31	20	1.1/4″	1.1/4″	54.0	10.4	150.5	80.0
STB-F62-90S-2020 DL90.5-MC	31	20	1.1/4″	1.1/4″	54.0	10.4	150.5	90.5
STB-F62-90S-2024-MC	31	20	1.1/4″	1.1/2″	63.5	12.7	150.5	99.0
STB-F62-90S-2420-MC	38	24	1.1/2″	1.1/4″	54.0	10.4	155.0	120.0
STB-F62-90S-2424-MC	38	24	1.1/2″	1.1/2″	63.5	12.7	175.5	108.5
STB-F62-90S-2432-MC	38	24	1.1/2″	2″	79.4	12.7	175.5	124.5
STB-F62-90S-3232-MC	51	32	2″	2″	79.4	12.7	219.5	140.0

Product Version: Stainless Steel (SS)

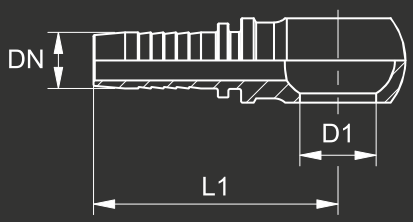
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STB - MBJ (Swage Tail x Metric Banjo)

Swage nipple, RGN



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	Banjo for metric hollow screw
Sealing form 1:	Sealed by copper ring
Short code:	RGN
Standard:	DIN 7642
Material:	Steel
Surface:	MotusCoat™



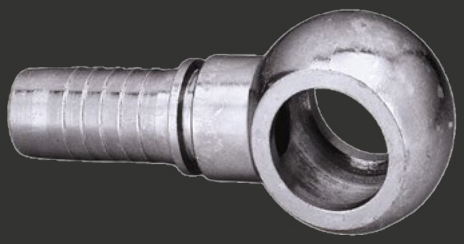
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	D1 mm	For hollow screw	L1 mm
STB-MBJ-0310-MC	5	3	3/16″	10.1	M 10	42.0
STB-MBJ-0408-MC	6	4	1/4″	8.1	M 8	48.0
STB-MBJ-0410-MC	6	4	1/4″	10.1	M 10	48.0
STB-MBJ-0412-MC	6	4	1/4″	12.1	M 12	46.5
STB-MBJ-0414-MC	6	4	1/4″	14.1	M 14	49.5
STB-MBJ-0416-MC	6	4	1/4″	16.1	M 16	52.5
STB-MBJ-0510-MC	8	5	5/16″	10.1	M 10	48.0
STB-MBJ-0512-MC	8	5	5/16″	12.1	M 12	54.5
STB-MBJ-0514-MC	8	5	5/16″	14.1	M 14	54.5
STB-MBJ-0516-MC	8	5	5/16″	16.1	M 16	52.5
STB-MBJ-0518-MC	8	5	5/16″	18.1	M 18	55.5
STB-MBJ-0614-MC	10	6	3/8″	14.1	M 14	56.0
STB-MBJ-0616-MC	10	6	3/8″	16.1	M 16	54.0
STB-MBJ-0618-MC	10	6	3/8″	18.1	M 18	57.0
STB-MBJ-0818-MC	12	8	1/2″	18.1	M 18	58.0
STB-MBJ-0822-MC	12	8	1/2″	22.1	M 22	60.5
STB-MBJ-1018-MC	16	10	5/8″	18.1	M 18	68.5
STB-MBJ-1022-MC	16	10	5/8″	22.1	M 22	69.5
STB-MBJ-1026-MC	16	10	5/8″	26.1	M 26	72.0
STB-MBJ-1222-MC	19	12	3/4″	22.1	M 22	76.0
STB-MBJ-1226-MC	19	12	3/4″	26.1	M 26	78.5
STB-MBJ-1230-MC	19	12	3/4″	30.1	M 30	82.0
STB-MBJ-1630-MC	25	16	1″	30.1	M 30	90.0

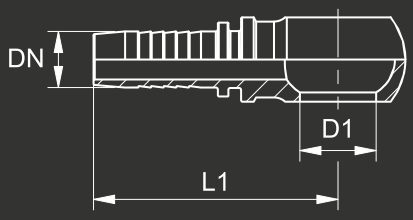
Product Version: Stainless Steel (SS)

STB - BBJ (Swage Tail x BSP Banjo)

Swage nipple, RGN



Application:	Swage Nipples for MH100, MH200, MH400, MH700
Connection 1:	Banjo for imperial hollow screw (BSP)
Sealing form 1:	Sealed by copper ring
Short code:	RNR
Material:	Steel
Surface:	MotusCoat™



Note: Choose the appropriate ferrule based on the hose type.

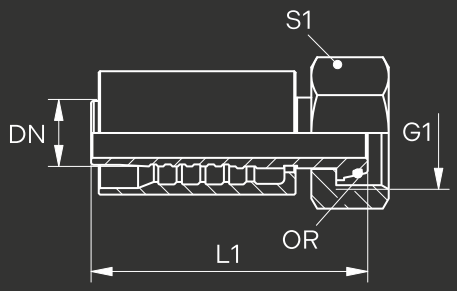
Identification	DN	Size	Inches	D1 mm	For hollow screw	L1 mm
STB-BBJ-0302-MC	5	3	3/16″	10.1	R 1/8″	42.5
STB-BBJ-0304-MC	5	3	3/16″	13.2	R 1/4″	43.5
STB-BBJ-0402-MC	6	4	1/4″	10.1	R 1/8″	48.5
STB-BBJ-0404-MC	6	4	1/4″	13.2	R 1/4″	49.5
STB-BBJ-0406-MC	6	4	1/4″	16.7	R 3/8″	52.5
STB-BBJ-0504-MC	8	5	5/16″	13.2	R 1/4″	49.5
STB-BBJ-0506-MC	8	5	5/16″	16.7	R 3/8″	52.5
STB-BBJ-0604-MC	10	6	3/8″	13.2	R 1/4″	58.5
STB-BBJ-0606-MC	10	6	3/8″	16.7	R 3/8″	54.0
STB-BBJ-0608-MC	10	6	3/8″	21.0	R 1/2″	59.5
STB-BBJ-0806-MC	12	8	1/2″	16.7	R 3/8″	58.0
STB-BBJ-0808-MC	12	8	1/2″	21.0	R 1/2″	60.5
STB-BBJ-0810-MC	12	8	1/2″	23.0	R 5/8″	63.0
STB-BBJ-1010-MC	16	10	5/8″	23.0	R 5/8″	67.5
STB-BBJ-1012-MC	16	10	5/8″	26.5	R 3/4″	72.0
STB-BBJ-1212-MC	19	12	3/4″	26.5	R 3/4″	78.5
STB-BBJ-1216-MC	19	12	3/4″	33.3	R 1″	87.0
STB-BBJ-1616-MC	25	16	1″	33.3	R 1″	95.0

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Metric Light Swivel Female



Application:	Swage fitting for MH500 hose
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOL
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



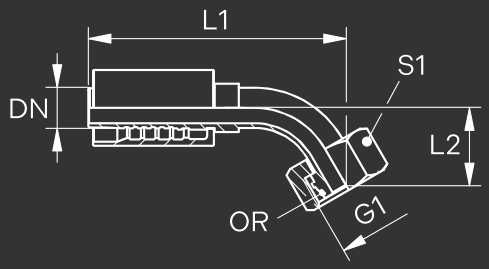
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
STMI5-MLF-2045-MC	31	20	1.1/4″	M 45 x 2	35	122.5	50	32.0 x 2.5
STMI5-MLF-2452-MC	38	24	1.1/2″	M 52 x 2	42	133.5	60	38.0 x 2.5

Product Version: Stainless Steel (SS)

Metric Light Swivel Female Swept 45



Application:	Swage fitting for HD 500 hoses
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOL
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	for external pipe Ømm	L1 mm	L2 mm	S1	OR
STMI5-MLF-45S-2045-MC	31	20	1.1/4″	M 45 x 2	35	194.0	47.0	50	32.0 x 2.5
STMI5-MLF-45S-2452-MC	38	24	1.1/2″	M 52 x 2	42	210.0	48.0	60	38.0 x 2.5

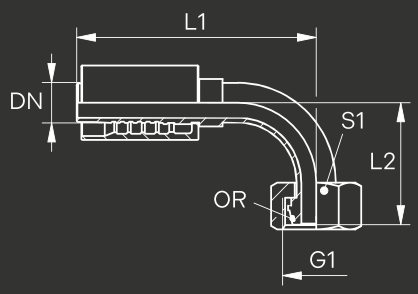
Product Version: Stainless Steel (SS)

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Metric Light Swivel Female Swept 90



Application:	Swage fitting for HD 500 hoses
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOL
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



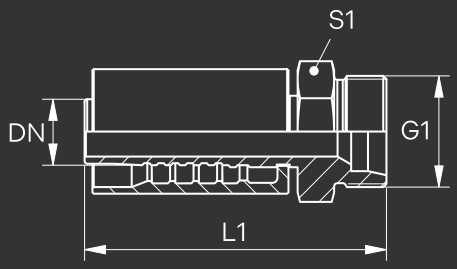
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1 mm	OR
STMI5-MLF-90S-2045-MC	31	20	1.1/4″	M 45 x 2	35	170.0	88.0	50	32.0 x 2.5
STMI5-MLF-90S-2452-MC	38	24	1.1/2″	M 52 x 2	42	193.0	99.0	60	38.0 x 2.5

Product Version: Stainless Steel (SS)

Metric Light Male



Application:	Swage fitting for HD 500 hoses
Connection 1:	Metric cylindrical outer thread
Sealing form 1:	24° inner cone
Short code:	CEL
Standard:	ISO 8434-1
Integration:	Without pull-out protection
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



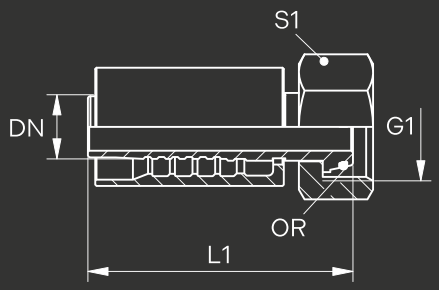
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm
STMI5-MLM-2045-MC	31	20	1.1/4"	M 45 x 2	35	115.0

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Metric Heavy Swivel Female



Application:	Swage fitting for HD 500 hoses
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



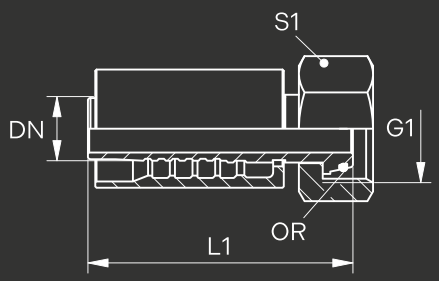
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
STMI7-MHF-1230-MC	19	12	3/4"	M 30 x 2	20	101.8	36	17.5 x 2.5
STMI7-MHF-1236-MC	19	12	3/4"	M 36 x 2	25	99.0	46	20.0 x 2.5
STMI7-MHF-1636-MC	25	16	1"	M 36 x 2	25	112.0	46	22.0 x 2.5
STMI7-MHF-1642-MC	25	16	1"	M 42 x 2	30	113.0	50	25.0 x 2.5
STMI7-MHF-1652-MC	25	16	1"	M 52 x 2	38	131.0	60	33.0 x 2.5
STMI5-MHF-2042-MC	31	20	1.1/4"	M 42 x 2	30	120.0	50	25.0 x 2.5
STMI5-MHF-2052-MC	31	20	1.1/4"	M 52 x 2	38	124.5	60	33.0 x 2.5

Product Version: Stainless Steel (SS)

Metric Heavy Swivel Female (Breaker Operation)



Application:	Swage fitting for HD 500 hoses
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Additional feature:	For breaker operation
Material:	Steel
Surface:	MotusCoat™
Description:	Reinforced design for extreme loads, e.g. use in hammers.



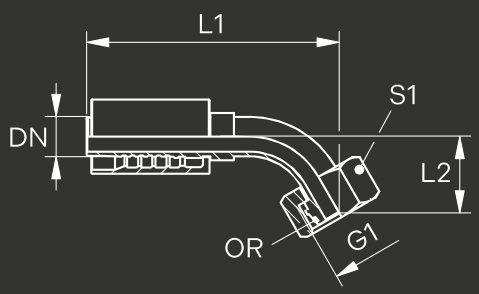
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
STMI7-MHF-1236-BO-MC	19	12	3/4″	M 36 x 2	25	104.0	46	20.0 x 2.5
STMI7-MHF-1642-BO-MC	25	16	1″	M 42 x 2	30	111.0	50	25.0 x 2.5
STMI5-MHF-2052-BO-MC	31	20	1.1/4″	M 52 x 2	38	112.5	60	33.0 x 2.5

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Metric Heavy Swivel Female Swept 45



Application:	Swage fitting for HD 500 hoses
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



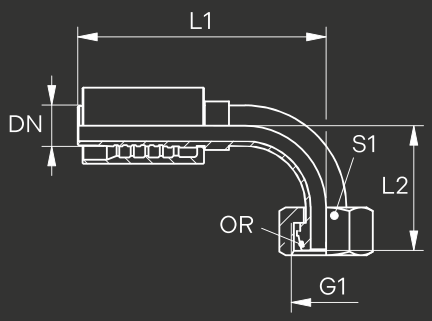
Identification	DN	Size	Inches	G1	for external pipe Ø	L1 mm	L2 mm	S1	OR
STMI7-MHF-45S-1230-MC	19	12	3/4"	M 30 x 2	20	133.0	27.0	36	16.0 x 2.5
STMI7-MHF-45S-1236-MC	19	12	3/4"	M 36 x 2	25	136.0	30.0	46	20.0 x 2.5
STMI7-MHF-45S-1242-MC	19	12	3/4"	M 42 x 2	30	142.0	35.0	50	27.0 x 2.5
STMI7-MHF-45S-1636-MC	25	16	1"	M 36 x 2	25	156.5	34.5	41	22.0 x 2.5
STMI7-MHF-45S-1642-MC	25	16	1"	M 42 x 2	30	164.0	34.5	50	25.0 x 2.5
STMI7-MHF-45S-1652-MC	25	16	1"	M 52 x 2	38	170.0	41.0	60	33.0 x 2.5
STMI5-MHF-45S-2042-MC	31	20	1"	M 42 x 2	30	175.0	39.5	50	27.0 x 2.5
STMI5-MHF-45S-2052-MC	31	20	1.1/4"	M 52 x 2	38	192.5	41.0	60	33.0 x 2.5

Product Version: Stainless Steel (SS)

Metric Heavy Swivel Female Swept 90



Application:	Swage fitting for HD 500 hoses
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
STMI7-MHF-90S-1230-MC	19	12	3/4"	M 30 x 2	20	125.5	57.5	36	17.5 x 2.5
STMI7-MHF-90S-1236-MC	19	12	3/4"	M 36 x 2	25	125.5	62.0	46	22.0 x 2.5
STMI7-MHF-90S-1242-MC	19	12	3/4"	M 42 x 2	30	129.0	71.5	50	27.0 x 2.5
STMI7-MHF-90S-1636-MC	25	16	1"	M 36 x 2	25	144.0	71.0	46	22.0 x 2.5
STMI7-MHF-90S-1642-MC	25	16	1"	M 42 x 2	30	157.5	72.5	50	27.0 x 2.5
STMI7-MHF-90S-1652-MC	25	16	1"	M 52 x 2	38	154.5	84.5	60	33.0 x 2.5
STMI5-MHF-90S-2042-MC	31	20	1.1/4"	M 42 x 2	30	162.0	82.0	50	27.0 x 2.5
STMI5-MHF-90S-2052-MC	31	20	1.1/4"	M 52 x 2	38	182.0	91.0	60	33.0 x 2.5

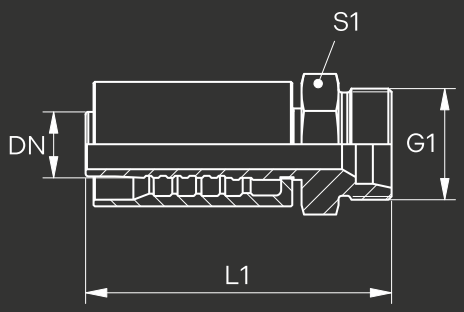
Product Version: Stainless Steel (SS)

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Metric Heavy Male



Application:	Swage fitting for HD 500 hoses
Connection 1:	Metric cylindrical outer thread
Sealing form 1:	24° inner cone
Short code:	CES
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



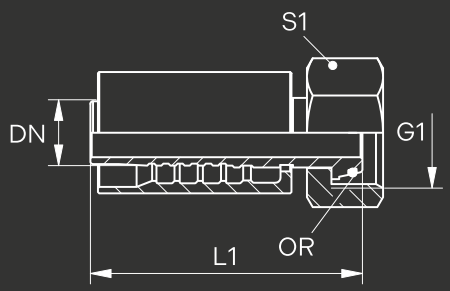
Identification	DN	Size	Inches	Series	G1	for external pipe Ø mm	L1 mm	S1
STMI7-MHM-1230-MC	19	12	3/4"	S	M 30 x 2	20	97.0	32
STMI7-MHM-1236-MC	19	12	3/4"	S	M 36 x 2	25	99.0	41
STMI7-MHM-1642-MC	25	16	1"	S	M 42 x 2	30	117.0	46
STMI5-MHM-2052-MC	31	20	1.1/4"	S	M 52 x 2	38	126.0	55

Product Version: Stainless Steel (SS)

BSP Swivel Female



Application:	Swage fitting for HD 500 hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	L1 MM	S1	OR
STMI7-BSF-1212-MC	19	12	3/4"	G 3/4"–14	88.0	32	17.1 x 1.6
STMI7-BSF-1616-MC	25	16	1"	G 1"–11	102.5	41	22.1 x 1.6
STMI5-BSF-2020-MC	31	20	1.1/4"	G 1.1/4"–11	116.0	50	29.1 x 1.6
STMI5-BSF-2424-MC	38	24	1.1/2"	G 1.1/2"–11	133.5	55	35.1 x 1.6
STMI5-BSF-3232-MC	51	32	2"	G 2"–11	147.0	70	48.1 x 1.6

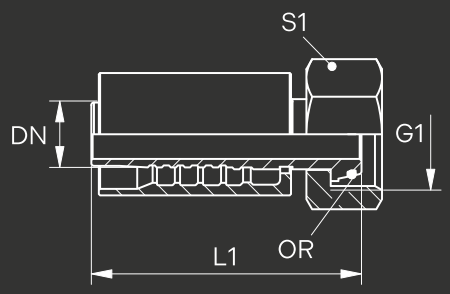
Product Version: Stainless Steel (SS)

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BSP Swivel Female (Breaker Operation)



Application:	Swage fitting for HD 500 hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
feature	For breaker operation
Material:	Steel
Surface:	MotusCoat™
Description:	Reinforced design for extreme loads, e.g. use in hammers.

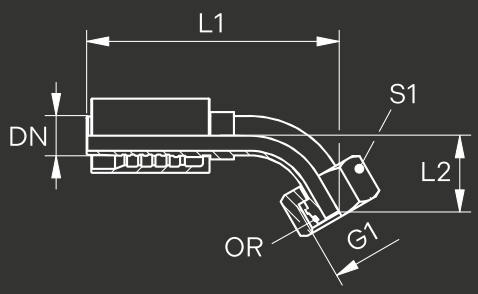


Identification	DN	Size	Inches	G1	L1 mm	S1	OR
STMI7-BSF-1212-BO-MC	19	12	3/4"	G 3/4"–14	96.5	32	17.1 x 1.6
STMI7-BSF-1616-BO-MC	25	16	1"	G 1"–11	103.0	41	22.1 x 1.6
STMI5-BSF-2020-BO-MC	31	20	1.1/4"	G 1.1/4"–11	114.0	50	29.1 x 1.6

BSP Swivel Female Swept 45



Application:	Swage fitting for HD 500 hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



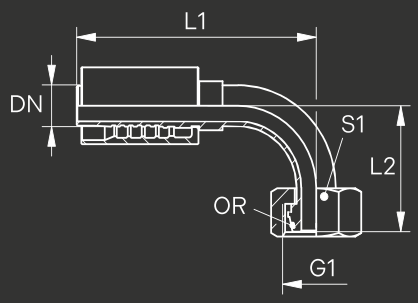
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
STMI7-BSF-45S-1212-MC	19	12	3/4″	G 3/4″–14	140.0	34.5	32	17.1 x 1.6
STMI7-BSF-45S-1616-MC	25	16	1″	G 1″–11	169.5	39.0	41	22.1 x 1.6
STMI5-BSF-45S-2020-MC	31	20	1.1/4″	G 1.1/4″–11	201.0	51.5	50	29.1 x 1.6
STMI5-BSF-45S-2424-MC	38	24	1.1/2″	G 1.1/2″–11	235.0	60.0	60	35.1 x 1.6
STMI5-BSF-45S-3232-MC	51	32	2″	G 2″–11	279.0	68.5	70	48.1 x 1.6

Product Version: Stainless Steel (SS)

BSP Swivel Female Swept 90



Application:	Swage fitting for HD 500 hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™

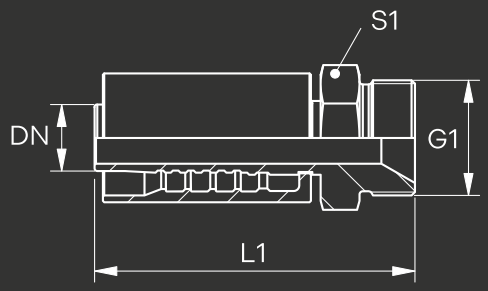


Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
STMI7-BSF-90S-1212-MC	19	12	3/4″	G 3/4″–14	127.5	68.2	32	17.1 x 1.6
STMI7-BSF-90S-1616-MC	25	16	1″	G 1″–11	158.0	81.7	41	22.1 x 1.6
STMI5-BSF-90S-2020-MC	31	20	1.1/4″	G 1.1/4″–11	182.0	106.5	50	29.1 x 1.6
STMI5-BSF-90S-2424-MC	38	24	1.1/2″	G 1.1/2″–11	215.5	123.5	60	35.1 x 1.6
STMI5-BSF-90S-3232-MC	51	32	2″	G 2″–11	250.5	146.0	70	48.1 x 1.6

BSP Parallel Male



Application:	Swage fitting for HD 500 hoses
Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Short code:	AGR
Standard:	ISO 8434-6, BS 5200
Integration:	With pull-out protection (interlock) Included in scope
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



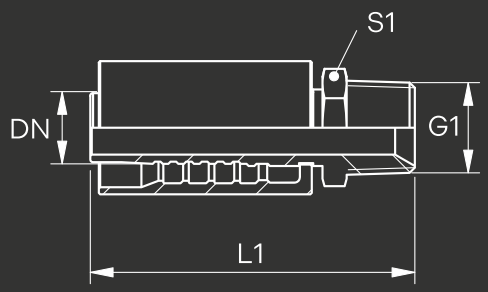
Identification	DN	Size	Inches	G1	L1	S1
STMI7-BPM-1212-MC	19	12	3/4"	G 3/4"–14	97.5	32
STMI7-BPM-1616-MC	25	16	1"	G 1"–11	114.5	41
STMI5-BPM-2020-MC	31	20	1.1/4"	G 1.1/4"–11	125.5	50
STMI5-BPM-2424-MC	38	24	1.1/2"	G 1.1/2"–11	143.5	55
STMI5-BPM-3232-MC	51	32	2"	G 2"–11	162.0	70

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NPT Tapered Male



Application:	Swage fitting for HD 500 hoses
Connection 1:	NPT external threads
Sealing form 1:	Thread seal, additional 60° inner cone
Short code:	AGN
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



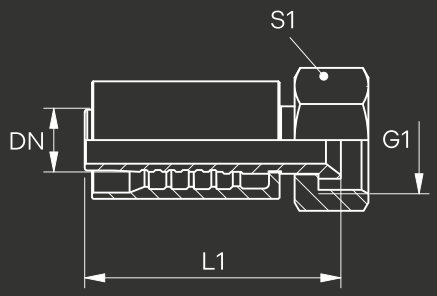
Identification	DN	Size	Inches	G1	L1 mm	S1
STMI7-NTM-1212-MC	19	12	3/4″	3/4″–14 NPT	98.0	27
STMI7-NTM-1616-MC	25	16	1″	1″–11.5 NPT	116.0	36
STMI7-NTM-1620-MC	25	16	1″	1.1/4″–11.5 NPT	118.0	46
STMI5-NTM-2020-MC	31	20	1.1/4″	1.1/4″–11.5 NPT	124.5	46
STMI5-NTM-2424-MC	38	24	1.1/2″	1.1/2″–11.5 NPT	139.5	50
STMI5-NTM-3232-MC	51	32	2″	2″–11.5 NPT	157.0	65

Product Version: Stainless Steel (SS)

JIC Swivel Female (Breaker Operation)



Application:	Swage fitting for HD 500 hoses
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Additional feature:	For breaker operation
Material:	Steel
Surface:	MotusCoat™
Description:	Reinforced design for extreme loads, e.g. use in hammers.



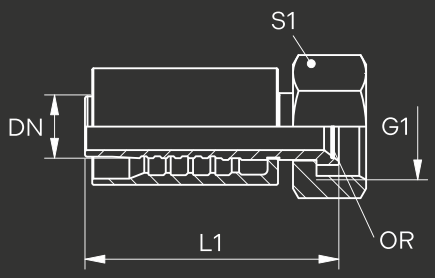
Identification	DN	Size	Inches	G1	L1 mm	S1
STMI7-JIF-1212-BO-MC	19	12	3/4″	1.1/16″–12 UN	91.5	32
STMI7-JIF-1616-BO-MC	25	16	1″	1.5/16″–12 UN	98.2	41
STMI7-JIF-1620-BO-MC	25	16	1″	1.5/8″–12 UN	111.0	50
STMI5-JIF-2020-BO-MC	31	20	1.1/4″	1.5/8″–12 UN		

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JIC Swivel Female



Application:	Swage fitting for HD 500 hoses
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone with O-ring
Short code:	DKOJ
Standard:	ISO 8434-2
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™

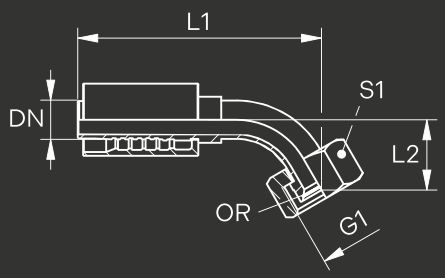


Identification	DN	Size	Inches	G1	L1 mm	S1	OR
STMI7-JIF-1212-MC	19	12	3/4″	1.1/16″–12 UN	90.0	32	19.00 x 1.50
STMI7-JIF-1616-MC	25	16	1″	1.5/16″–12 UN	103.5	41	25.00 x 1.50
STMI5-JIF-2020-MC	31	20	1.1/4″	1.5/8″–12 UN	115.0	50	31.47 x 1.78
STMI5-JIF-2424-MC	38	24	1.1/2″	1.7/8″–12 UN	132.0	55	37.82 x 1.78
STMI5-JIF-3232-MC	51	32	2″	2.1/2″–12 UN	146.0	75	50.00 x 2.00

JIC Swivel Female Swept 45



Application:	Swage fitting for HD 500 hoses
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone with O-ring
Short code:	DKOJ S1
Standard:	ISO 8434-2
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™

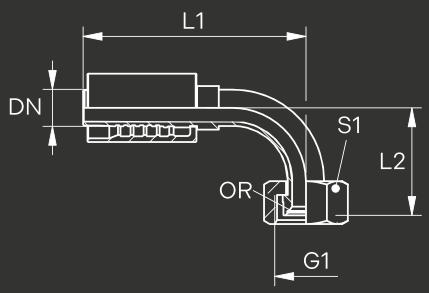


Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
STMI7-JIF-45S-1212-MC	19	12	3/4"	1.1/16"–12 UN	140.0	34.5	32	19.00 x 1.50
STMI7-JIF-45S-1616-MC	25	16	1"	1.5/16"–12 UN	169.5	39.0	41	25.00 x 1.50
STMI5-JIF-45S-2020-MC	31	20	1.1/4"	1.5/8"–12 UN	199.0	49.5	50	31.47 x 1.78
STMI5-JIF-45S-2424-MC	38	24	1.1/2"	1.7/8"–12 UN	233.0	58.0	55	37.82 x 1.78
STMI5-JIF-45S-3232-MC	51	32	2"	2.1/2"–12 UN	275.0	64.0	75	50.00 x 2.00

JIC Swivel Female Swept 90



Application:	Swage fitting for HD 500 hoses
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone with O-ring
Short code:	DKOJ
Standard:	ISO 8434-2
Integration:	With pull-out protection (interlock) OR Included in scope
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™

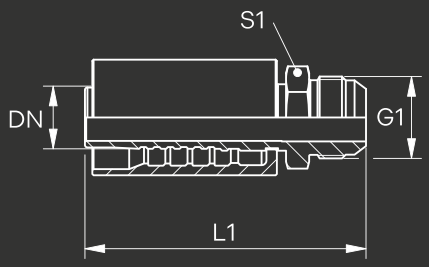


Identification	DN	Size	Inches	G1	L1	L2	S1	OR
STMI7-JIF-90S-1212-MC	19	12	3/4"	1.1/16"–12 UN	127.5	68.2	32	19.00 x 1.50
STMI7-JIF-90S-1616-MC	25	16	1"	1.5/16"–12 UN	158.0	81.7	41	25.00 x 1.50
STMI5-JIF-90S-2020-MC	31	20	1.1/4"	1.5/8"–12 UN	182.0	104.0	50	31.47 x 1.78
STMI5-JIF-90S-2424-MC	38	24	1.1/2"	1.7/8"–12 UN	215.5	120.5	55	37.82 x 1.78
STMI5-JIF-90S-3232-MC	51	32	2"	2.1/2"–12 UN	250.5	140.0	75	50.00 x 2.00

JIC Male



Application:	Swage fitting for HD 500 hoses
Connection 1:	UN / UNF external threads
Sealing form 1:	74° outer cone
Short code:	AGJ
Standard:	ISO 8434-2
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	L1	S1
STMI7-JIM-1212-MC	19	12	3/4"	1.1/16"–12 UN	102.5	27
STMI7-JIM-1616-MC	25	16	1"	1.5/16"–12 UN	117.0	36
STMI5-JIM-2020-MC	31	20	1.1/4"	1.5/8"–12 UN	127.0	46
STMI5-JIM-2024-MC	31	20	1.1/4"	1.7/8"–12 UN	-	-
STMI5-JIM-2424-MC	38	24	1.1/2"	1.7/8"–12 UN	145.5	50
STMI5-JIM-2432-MC	38	24	1.1/2"	2.1/2"–12 UN	-	-
STMI5-JIM-3232-MC	51	32	2"	2.1/2"–12 UN	169.5	65

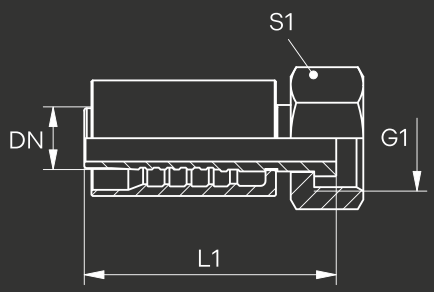
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ORFS Swivel Female



Application:	Swage fitting for HD 500 hoses
Connection 1:	UN / UNF nut threads
Sealing form 1:	Flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™

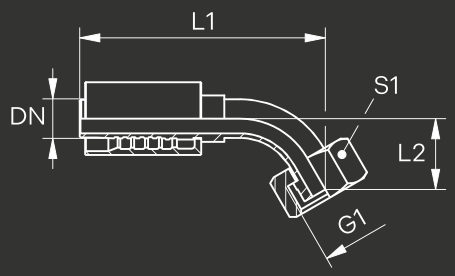


Identification	DN	Size	Inches	G1	L1	S1
STMI7-ORF-1219-MC	19	12	3/4"	1.3/16"–12 UN	108.0	36
STMI7-ORF-1223-MC	19	12	3/4"	1.7/16"–12 UN	98.0	41
STMI7-ORF-1623-MC	25	16	1"	1.7/16"–12 UN	122.0	41
STMI5-ORF-2027-MC	31	20	1.1/4"	1.11/16"–12 UN	129.0	50
STMI5-ORF-2432-MC	38	24	1.1/2"	2"–12 UN	141.0	60

ORFS Swivel Female Swept 45



Application:	Swage fitting for HD 500 hoses
Connection 1:	UN / UNF nut threads
Sealing form 1:	Flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



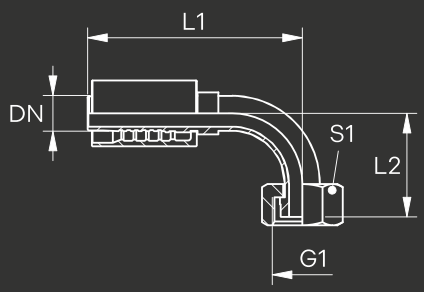
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
STMI7-ORF-45S-1219-MC	19	12	3/4″	1.3/16″–12 UN	133.0	26.5	36
STMI7-ORF-45S-1623-MC	25	16	1″	1.7/16″–12 UN	160.5	31.0	41
STMI5-ORF-45S-2027-MC	31	20	1.1/4″	1.11/16″–12 UN	171.5	76.0	50
STMI5-ORF-45S-2432-MC	38	24	1.1/2″	2″–12 UN	207.0	88.5	60

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ORFS Swivel Female Swept 90



Application:	Swage fitting for HD 500 hoses
Connection 1:	UN / UNF nut threads
Sealing form 1:	Flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™

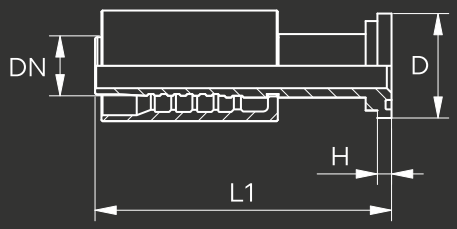


Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
STMI7-ORF-90S-1219-MC	19	12	3/4″	1.3/16″–12 UN	126.0	56.0	36
STMI7-ORF-90S-1623-MC	25	16	1″	1.7/16″–12 UN	157.5	68.0	41
STMI5-ORF-90S-2027-MC	31	20	1.1/4″	1.11/16″–12 UN	178.0	34.0	50
STMI5-ORF-90S-2432-MC	38	24	1.1/2″	2″–12 UN	209.0	32.0	60

Code 61 Flange



Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



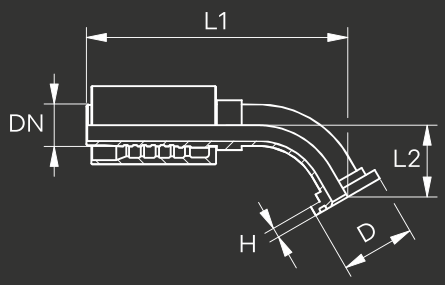
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
STMI7-F61-1212-MC	19	12	3/4″	3/4″	38.1	6.8	116.5
STMI7-F61-1216-MC	19	12	3/4″	1″	44.5	8.1	119.5
STMI7-F61-1612-MC	25	16	1″	3/4″	38.1	6.8	132.0
STMI7-F61-1616-MC	25	16	1″	1″	44.5	8.1	135.5
STMI7-F61-1620-MC	25	16	1″	1.1/4″	50.8	8.1	138.5
STMI5-F61-2016-MC	31	20	1.1/4″	1″	44.5	8.1	145.0
STMI5-F61-2020-MC	31	20	1.1/4″	1.1/4″	50.8	8.1	148.5
STMI5-F61-2024-MC	31	20	1.1/4″	1.1/2″	60.3	8.1	151.5
STMI5-F61-2420-MC	38	24	1.1/2″	1.1/4″	50.8	8.1	158.0
STMI5-F61-2424-MC	38	24	1.1/2″	1.1/2″	60.3	8.1	166.5
STMI5-F61-2432-MC	38	24	1.1/2″	2″	71.4	9.6	169.5
STMI5-F61-3232-MC	51	32	2″	2″	71.4	9.6	183.5

Product Version: Stainless Steel (SS)

Code 61 Flange Swept 45



Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFL
DN Standard:	SAE J518, ISO 6162-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



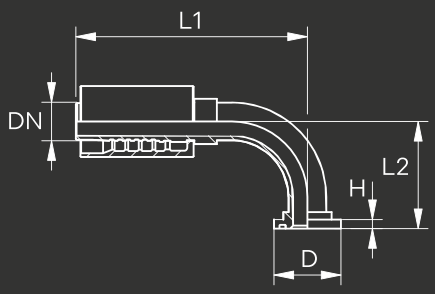
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STMI7-F61-45S-1212-MC	19	12	3/4″	3/4″	38.1	6.8	132.5	27.5
STMI7-F61-45S-1216-MC	19	12	3/4″	1″	44.5	8.1	134.5	29.5
STMI7-F61-45S-1612-MC	25	16	1″	3/4″	38.1	6.8	153.0	30.0
STMI7-F61-45S-1616-MC	25	16	1″	1″	44.5	8.1	159.0	28.5
STMI7-F61-45S-1620-MC	25	16	1″	1.1/4″	50.8	8.1	161.0	30.5
STMI5-F61-45S-2016-MC	31	20	1.1/4″	1″	44.5	8.0	170.5	35.0
STMI5-F61-45S-2020-MC	31	20	1.1/4″	1.1/4″	50.8	8.0	182.0	34.5
STMI5-F61-45S-2024-MC	31	20	1.1/4″	1.1/2″	60.3	8.0	187.0	37.5
STMI5-F61-45S-2420-MC	38	24	1.1/2″	1.1/4″	50.8	8.0	202.5	43.0
STMI5-F61-45S-2424-MC	38	24	1.1/2″	1.1/2″	60.3	8.0	215.0	41.5
STMI5-F61-45S-2432-MC	38	24	1.1/2″	2″	71.4	9.5	230.5	55.5
STMI5-F61-45S-3232-MC	51	32	2″	2″	71.4	9.5	263.0	58.5

Product Version: Stainless Steel (SS)

Code 61 Flange Swept 90



Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STMI7-F61-90S-1212-MC	19	12	3/4″	3/4″	38.1	6.8	127.5	58.0
STMI7-F61-90S-1216-MC	19	12	3/4″	1″	44.5	8.1	127.5	61.0
STMI7-F61-90S-1612-MC	25	16	1″	3/4″	38.1	6.8	144.0	64.5
STMI7-F61-90S-1616-MC	25	16	1″	1″	44.5	8.1	158.0	67.0
STMI7-F61-90S-1620-MC	25	16	1″	1.1/4″	50.8	8.1	158.0	69.5
STMI5-F61-90S-2016-MC	31	20	1.1/4″	1″	44.5	8.0	162.0	76.0
STMI5-F61-90S-2020-MC	31	20	1.1/4″	1.1/4″	50.8	8.0	181.0	79.5
STMI5-F61-90S-2024-MC	31	20	1.1/4″	1.1/2″	60.3	8.0	182.0	86.7
STMI5-F61-90S-2420-MC	38	24	1.1/2″	1.1/4″	50.8	8.0	193.0	94.0
STMI5-F61-90S-2424-MC	38	24	1.1/2″	1.1/2″	60.3	8.0	211.0	99.0
STMI5-F61-90S-2432-MC	38	24	1.1/2″	2″	71.4	9.5	218.0	100.0
STMI5-F61-90S-3232-MC	51	32	2″	2″	71.4	9.5	250.0	112.5

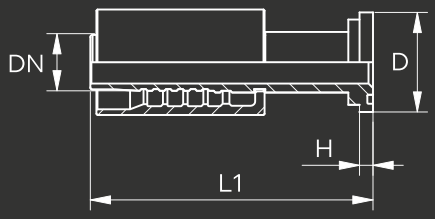
Product Version: Stainless Steel (SS)

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Code 62 Flange



Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



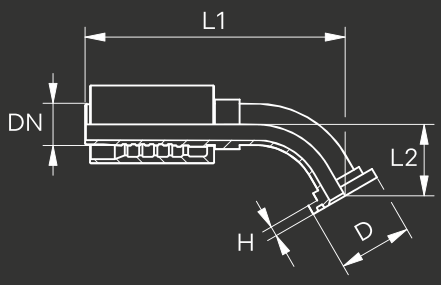
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
STMI7-F62-1212-MC	19	12	3/4″	3/4″	41.3	8.8	124.5
STMI7-F62-1216-MC	19	12	3/4″	1″	47.6	9.6	129.0
STMI7-F62-1612-MC	25	16	1″	3/4″	41.3	8.8	134.0
STMI7-F62-1616-MC	25	16	1″	1″	47.6	9.6	146.5
STMI7-F62-1620-MC	25	16	1″	1.1/4″	54.0	10.4	151.0
STMI5-F62-2016-MC	31	20	1.1/4″	1″	47.6	9.6	149.0
STMI5-F62-2020-MC	31	20	1.1/4″	1.1/4″	54.0	10.4	162.5
STMI5-F62-2024-MC	31	20	1.1/4″	1.1/2″	63.5	12.7	167.0
STMI5-F62-2420-MC	38	24	1.1/2″	1.1/4″	54.0	10.4	162.0
STMI5-F62-2424-MC	38	24	1.1/2″	1.1/2″	63.5	12.7	183.5
STMI5-F62-2432-MC	38	24	1.1/2″	2″	79.4	12.7	188.0
STMI5-F62-3232-MC	51	32	2″	2″	79.4	12.7	202.0

Product Version: Stainless Steel (SS)

Code 62 Flange Swept 45



Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STMI7-F62-45S-1212-MC	19	12	3/4″	3/4″	41.3	8.8	135.5	30.0
STMI7-F62-45S-1216-MC	19	12	3/4″	1″	47.6	9.6	139.5	34.5
STMI7-F62-45S-1616-MC	25	16	1″	1″	47.6	9.6	164.0	33.5
STMI7-F62-45S-1620-MC	25	16	1″	1.1/4″	54.0	10.4	169.0	38.5
STMI5-F62-45S-2016-MC	31	20	1.1/4″	1″	47.6	9.5	-	-
STMI5-F62-45S-2020-MC	31	20	1.1/4″	1.1/4″	54.0	10.3	191.0	41.5
STMI5-F62-45S-2024-MC	31	20	1.1/4″	1.1/2″	63.5	12.6	197.0	47.5
STMI5-F62-45S-2420-MC	38	24	1.1/2″	1.1/4″	54.0	10.3	-	-
STMI5-F62-45S-2424-MC	38	24	1.1/2″	1.1/2″	63.5	12.6	222.5	49.0
STMI5-F62-45S-2432-MC	38	24	1.1/2″	2″	79.4	12.6	236.0	61.0
STMI5-F62-45S-3232-MC	51	32	2″	2″	79.4	12.6	275.0	64.5

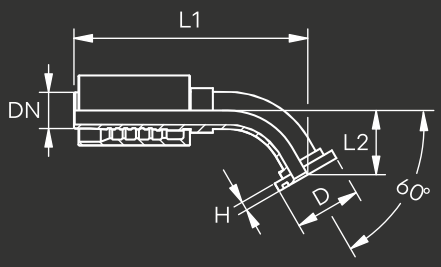
Product Version: Stainless Steel (SS)

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Code 62 Flange Swept 60



Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
DN Standard:	SAE J518, ISO 6162-2
L2 Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™

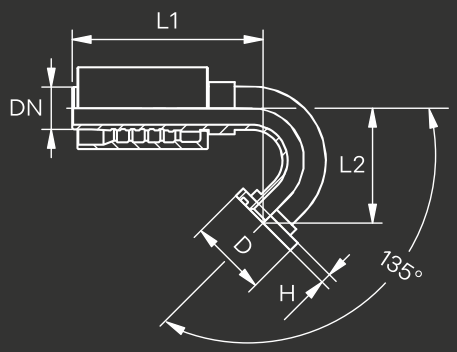


Identification	DN	Size	Inches	Flange size	D mm	H mm
STMI7-F62-60S-1616-MC	25	16	1"	1"	47.6	9.5

Code 62 Flange Swept 135



Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



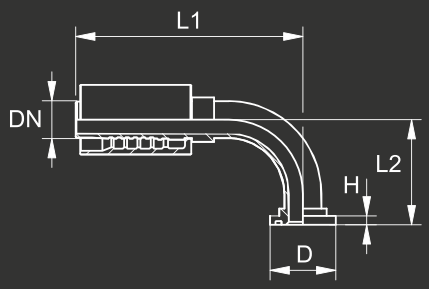
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STMI7-F62-135S-1616-MC	25	16	1"	1"	47.6	9.5	170.0	100.0

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Code 62 Flange Swept 90



Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	With pull-out protection (interlock)
Included in scope:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STMI7-F62-90S-1212-MC	19	12	3/4″	3/4″	41.3	8.8	127.5	62.0
STMI7-F62-90S-1216-MC	19	12	3/4″	1″	47.6	9.6	127.5	68.0
STMI7-F62-90S-1612-MC	25	16	1″	3/4″	41.3	8.8	152.5	70.5
STMI7-F62-90S-1616-MC	25	16	1″	1″	47.6	9.6	158.0	74.0
STMI5-F62-90S-2016-MC	31	20	1.1/4″	1″	47.6	9.5	162.0	80.0
STMI5-F62-90S-2020-MC	31	20	1.1/4″	1.1/4″	54.0	10.3	182.0	92.7
STMI5-F62-90S-2024-MC	31	20	1.1/4″	1.1/2″	63.5	12.6	182.0	101.2
STMI5-F62-90S-2420-MC	38	24	1.1/2″	1.1/4″	54.0	10.3	193.0	100.0
STMI5-F62-90S-2424-MC	38	24	1.1/2″	1.1/2″	63.5	12.6	215.5	110.0
STMI5-F62-90S-2432-MC	38	24	1.1/2″	2″	79.4	12.6	215.5	126.0
STMI5-F62-90S-3232-MC	51	32	2″	2″	79.4	12.6	250.5	141.0

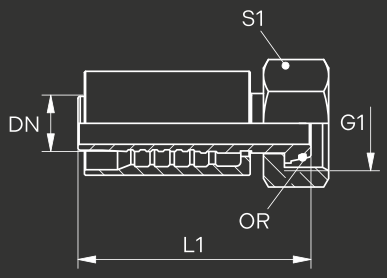
Product Version: Stainless Steel (SS)

Metric Light Swivel Female

Swage fitting, DKOL



Application:	Swage fitting for MH800 hose
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOL
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
STMI7-MLF-0618-MC	10	6	3/8″	M 18 x 1.5	12	69.3	22	9.0 x 1.5
STMI7-MLF-0822-MC	12	8	1/2″	M 22 x 1.5	15	70.8	27	12.0 x 2.0
STMI7-MLF-1026-MC	16	10	5/8″	M 26 x 1.5	18	88.2	32	15.0 x 2.0
STMI7-MLF-1030-MC	16	10	5/8″	M 30 x 2	22	86.0	36	20.0 x 2.0

Product Version: Stainless Steel (SS)

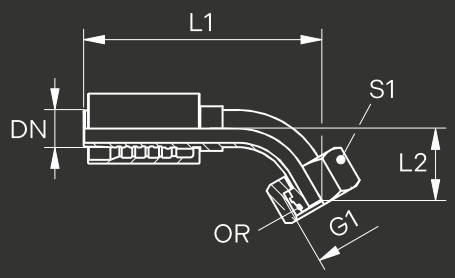
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Metric Light Swivel Female 45

Swage fitting, DKOL angle 45°



Application:	Swage fitting for MH800 hose
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOL
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
STMI7-MLF-45S-0618-MC	10	6	3/8″	M 18 x 1.5	12	82.5	19.5	22	10.5 x 1.5
STMI7-MLF-45S-0822-MC	12	8	1/2″	M 22 x 1.5	15	93.5	21.0	27	12.0 x 2.0
STMI7-MLF-45S-1026-MC	16	10	5/8″	M 26 x 1.5	18	115.0	26.5	32	15.0 x 2.0

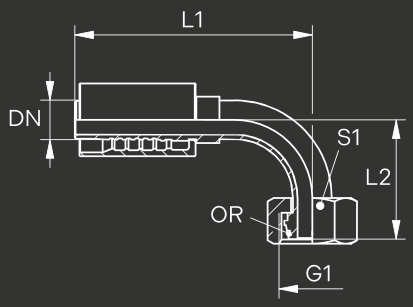
Product Version: Stainless Steel (SS)

Metric Light Swivel Female 90

Swage fitting, DKOL angle 90°



Application:	Swage fitting for MH800 hose
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOL
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	for external pipe Ømm	L1 mm	L2 mm	S1	OR
STMI7-MLF-90S-0618-MC	10	6	3/8″	M 18 x 1.5	12	77.5	37.0	22	10.5 x 1.5
STMI7-MLF-90S-0822-MC	12	8	1/2″	M 22 x 1.5	15	85.5	42.0	27	12.0 x 2.0
STMI7-MLF-90S-1026-MC	16	10	5/8″	M 26 x 1.5	18	106.5	52.5	32	15.0 x 2.0

Product Version: Stainless Steel (SS)

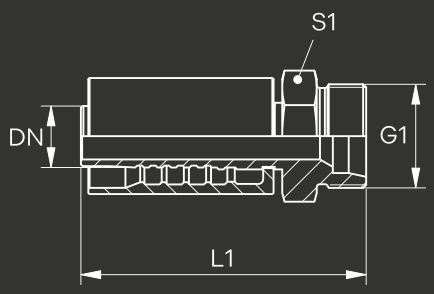
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Metric Light Male

Swage fitting, CEL



Application:	Swage fitting for MH800 hose
Connection 1:	Metric cylindrical outer thread
Sealing form 1:	24° inner cone
Short code:	CEL / CES
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	Series	G1	for external pipe Ømm
STMI7-MLM-0618-MC	10	6	3/8″	L	M 18 x 1.5	12
STMI7-MLM-0822-MC	12	8	1/2″	L	M 22 x 1.5	15
STMI7-MLM-1026-MC	16	10	5/8″	L	M 26 x 1.5	18

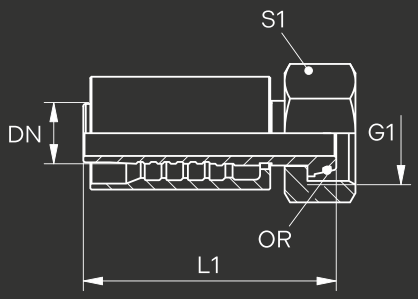
Product Version: Stainless Steel (SS)

Metric Heavy Swivel Female

Swage fitting, DKOS



Application:	Swage fitting for MH800 hose
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	S1	L1 mm	OR	OR
STMI7-MHF-0620-MC	10	6	3/8″	M 20 x 1.5	24	10.0		10.0 x 1.5
STMI7-MHF-0622-MC	10	6	3/8″	M 22 x 1.5	14	27	67.6	12.0 x 2.0
STMI7-MHF-0824-MC	12	8	1/2″	M 24 x 1.5	16	30	72.8	13.0 x 2.0
STMI7-MHF-0830-MC	12	8	1/2″	M 30 x 2	20	36	75.8	17.5 x 2.5
STMI7-MHF-1024-MC	16	10	5/8″	M 24 x 1.5	16	30	83.5	13.0 x 2.0
STMI7-MHF-1030-MC	16	10	5/8″	M 30 x 2	20	36	86.0	17.5 x 2.5
STMI7-MHF-1036-MC	16	10	5/8″	M 36 x 2	25	46	89.0	20.0 x 2.5
STMI7-MHF-1230-MC	19	12	3/4″	M 30 x 2	20	36	96.0	16.0 x 2.5
STMI7-MHF-1236-MC	19	12	3/4″	M 36 x 2	25	46	99.0	20.0 x 2.5
STMI7-MHF-1242-MC	19	12	3/4″	M 42 x 2	30	50	100.0	25.0 x 2.5
STMI7-MHF-1636-MC	25	16	1″	M 36 x 2	25	46	112.0	20.0 x 2.5
STMI7-MHF-1642-MC	25	16	1″	M 42 x 2	30	50	113.0	25.0 x 2.5
STMI7-MHF-1652-MC	25	16	1″	M 52 x 2	38	60	131.0	33.0 x 2.5
STMI7-MHF-2042-MC	31	20	1.1/4″	M 42 x 2	30	50	151.0	27.0 x 2.5
STMI7-MHF-2052-MC	31	20	1.1/4″	M 52 x 2	38	60	112.5	33.0 x 2.5
STMI7-MHF-2452-MC	38	24	1.1/2″	M 52 x 2	38	60	136.5	33.0 x 2.5

Product Version: Stainless Steel (SS)

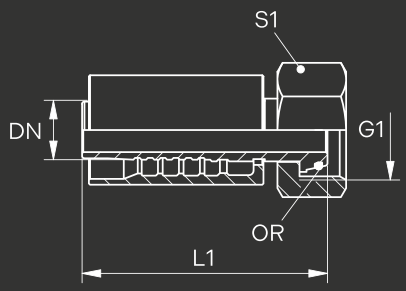
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Metric Heavy Swivel Female (Breaker Operation)

Swage fitting, DKOS



Application:	Swage fitting for MH800 hose
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule L1
Additional feature:	For breaker operation
Material:	Steel
Surface:	MotusCoat™
Description:	Reinforced design for extreme loads, e.g. use in hammers.



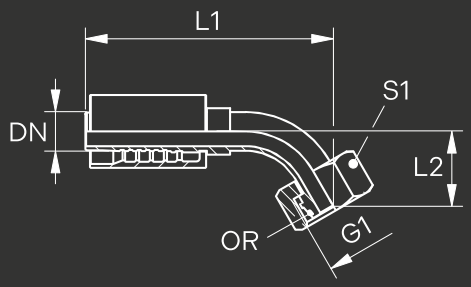
Identification	DN	Size	Inches	G1	for external pipe Ømm	L1 mm	S1	OR
STMI7-MHF-1236-BO-MC	19	12	3/4"	M 36 x 2	25	104.0	46	20.0 x 2.5
STMI7-MHF-1642-BO-MC	25	16	1"	M 42 x 2	30	111.0	50	25.0 x 2.5
STMI7-MHF-2052-BO-MC	31	20	1.1/4"	M 52 x 2	38	114.0	60	33.0 x 2.5

Metric Heavy Swivel Female 45

Swage fitting, DKOS angle 45°



Application:	Swage fitting for MH800 hose
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	for external pipe Ømm	L1 mm	S1	L2 mm	OR
STMI7-MHF-45S-0620-MC	10	6	3/8″	M 20 x 1.5	12	-	24	-	10.0 x 1.5
STMI7-MHF-45S-0622-MC	10	6	3/8″	M 22 x 1.5	14	94.2	27	-	12.0 x 2.0
STMI7-MHF-45S-0824-MC	12	8	1/2″	M 24 x 1.5	16	95.0	30	21.5	13.0 x 2.0
STMI7-MHF-45S-0830-MC	12	8	1/2″	M 30 x 2	20	108.0	36	27.0	17.5 x 2.5
STMI7-MHF-45S-1030-MC	16	10	3/8″	M 30 x 2	20	118.0	36	27.0	17.5 x 2.5
STMI7-MHF-45S-1230-MC	19	12	3/4″	M 30 x 2	20	133.0	36	27.0	16.0 x 2.5
STMI7-MHF-45S-1236-MC	19	12	3/4″	M 36 x 2	25	136.0	46	30.0	20.0 x 2.5
STMI7-MHF-45S-1242-MC	19	12	3/4″	M 42 x 2	30	142.0	50	35.0	27.0 x 2.5
STMI7-MHF-45S-1636-MC	25	16	1″	M 36 x 2	25	156.5	41	34.5	20.0 x 2.5
STMI7-MHF-45S-1642-MC	25	16	1″	M 42 x 2	30	164.0	50	34.5	25.0 x 2.5
STMI7-MHF-45S-1652-MC	25	16	1″	M 52 x 2	38	170.0	60	41.0	33.0 x 2.5
STMI7-MHF-45S-2042-MC	31	20	1.1/4″	M 42 x 2	30	175.0	50	39.5	27.0 x 2.5
STMI7-MHF-45S-2052-MC	31	20	1.1/4″	M 52 x 2	38	200.0	60	43.0	33.0 x 2.5

Product Version: Stainless Steel (SS)

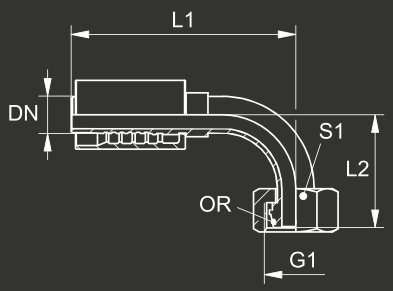
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Metric Heavy Swivel Female 90

Swage fitting, DKOS angle 90°



Application:	Swage fitting for MH800 hose
Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS (Heavy Series)
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	Pipe Ø	L1 mm	S1	L2 mm	OR
STMI7-MHF-90S-0620-MC	10	6	3/8″	M 20 x 1.5	12	-	24	-	10.0 x 1.5
STMI7-MHF-90S-0622-MC	10	6	3/8″	M 22 x 1.5	14	71.7	27	-	12.0 x 2.0
STMI7-MHF-90S-0824-MC	12	8	1/2″	M 24 x 1.5	16	87.0	30	45.0	13.0 x 2.0
STMI7-MHF-90S-0830-MC	12	8	1/2″	M 30 x 2	20	86.5	36	49.5	17.5 x 2.5
STMI7-MHF-90S-1030-MC	16	10	3/8″	M 30 x 2	20	106.5	36	49.5	17.5 x 2.5
STMI7-MHF-90S-1230-MC	19	12	3/4″	M 30 x 2	20	125.5	36	57.5	17.5 x 2.5
STMI7-MHF-90S-1236-MC	19	12	3/4″	M 36 x 2	25	125.5	46	62.0	20.0 x 2.5
STMI7-MHF-90S-1242-MC	19	12	3/4″	M 42 x 2	30	129.0	50	71.5	25.0 x 2.5
STMI7-MHF-90S-1636-MC	25	16	1″	M 36 x 2	25	144.0	46	71.0	20.0 x 2.5
STMI7-MHF-90S-1642-MC	25	16	1″	M 42 x 2	30	157.5	50	72.5	25.0 x 2.5
STMI7-MHF-90S-1652-MC	25	16	1″	M 52 x 2	38	154.5	60	84.5	33.0 x 2.5
STMI7-MHF-90S-2042-MC	31	20	1.1/4″	M 42 x 2	30	162.0	50	82.0	27.0 x 2.5
STMI7-MHF-90S-2052-MC	31	20	1.1/4″	M 52 x 2	38	235.0	60	95.0	33.0 x 2.5

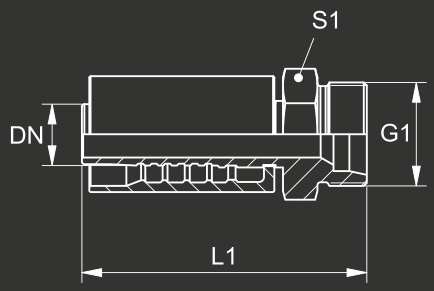
Product Version: Stainless Steel (SS)

Metric Heavy Male

Swage fitting, CES



Application:	Swage fitting for MH800 hose
Connection 1:	Metric cylindrical outer thread
Sealing form 1:	24° inner cone
Short code:	CEL (Light) / CES (Heavy)
Standard:	ISO 8434-1
Integration:	With pull-out protection (interlock)
Included in scope:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	Series	G1	For pipe Ø	L1 mm	S1
STMI7-MHM-0620-MC	10	6	3/8″	S	M 20 x 1.5	12 mm	67.8	22
STMI7-MHM-0622-MC	10	6	3/8″	S	M 22 x 1.5	14 mm	69.7	22
STMI7-MHM-0824-MC	12	8	1/2″	S	M 24 x 1.5	16 mm	75.0	24
STMI7-MHM-0830-MC	12	8	1/2″	S	M 30 x 2	20 mm	-	-
STMI7-MHM-1030-MC	16	10	5/8″	S	M 30 x 2	20 mm	90.5	30
STMI7-MHM-1230-MC	19	12	3/4″	S	M 30 x 2	20 mm	97.0	32
STMI7-MHM-1236-MC	19	12	3/4″	S	M 36 x 2	25 mm	99.0	41
STMI7-MHM-1642-MC	25	16	1″	S	M 42 x 2	30 mm	117.0	46
STMI7-MHM-2052-MC	31	20	1.1/4″	S	M 52 x 2	38 mm	123.0	55

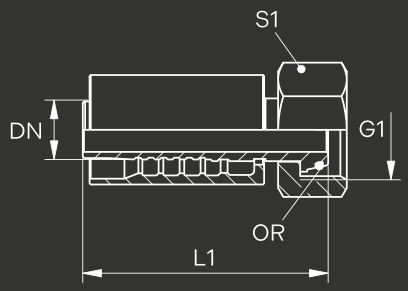
Product Version: Stainless Steel (SS)

BSP Swivel Female

Swage fitting, DKOR



Application:	Swage fitting for MH800 hose
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	L1 mm	S1	OR
STMI7-BSF-0808-MC	12	8	1/2″	G 1/2″–14	69.3	27	12.1 x 1.6
STMI7-BSF-1212-MC	19	12	3/4″	G 3/4″–14	88.0	32	17.1 x 1.6
STMI7-BSF-1616-MC	25	16	1″	G 1″–11	102.5	41	22.1 x 1.6
STMI7-BSF-2020-MC	31	20	1.1/4″	G 1.1/4″–11	116.0	50	29.1 x 1.6
STMI7-BSF-2424-MC	38	24	1.1/2″	G 1.1/2″–11	133.5	55	35.1 x 1.6
STMI7-BSF-2432-MC	38	24	1.1/2″	G 2″–11	143.2	70	48.1 x 1.6

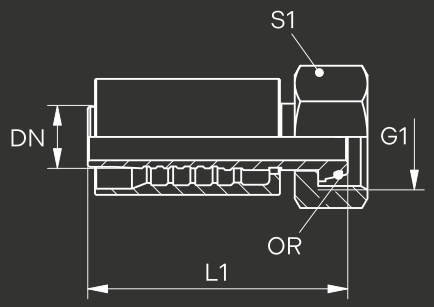
Product Version: Stainless Steel (SS)

BSP Swivel Female (Breaker Operation)

Swage fitting, DKOR



Application:	Swage fitting for MH800 hose
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Additional feature:	For breaker operation
Material:	Steel
Surface:	MotusCoat™
Description:	Reinforced design for extreme loads, e.g. use in hammers.



Identification	DN	Size	Inches	G1	L1 mm	S1	OR
STMI7-BSF-1212-BO-MC	19	12	3/4"	G 3/4"–14	96.5	32	17.1 x 1.6
STMI7-BSF-1616-BO-MC	25	16	1"	G 1"–11	103.0	41	22.1 x 1.6

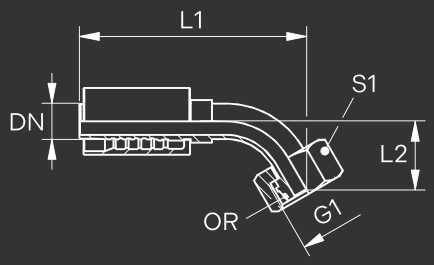
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BSP Swivel Female 45

Swage fitting, DKOR angle 45°



Application:	Swage fitting for MH800 hose
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	L1	L2	S1	OR
STMI7-BSF-45S-0808-MC	12	8	1/2″	G 1/2″–14	91.5	20.0	27	12.1 x 1.6
STMI7-BSF-45S-1212-MC	19	12	3/4″	G 3/4″–14	140.0	34.5	32	17.1 x 1.6
STMI7-BSF-45S-1616-MC	25	16	1″	G 1″–11	169.5	39.0	41	22.1 x 1.6
STMI7-BSF-45S-2020-MC	31	20	1.1/4″	G 1.1/4″–11	201.0	51.5	50	29.1 x 1.6
STMI7-BSF-45S-2424-MC	38	24	1.1/2″	G 1.1/2″–11	235.0	60.0	60	35.1 x 1.6

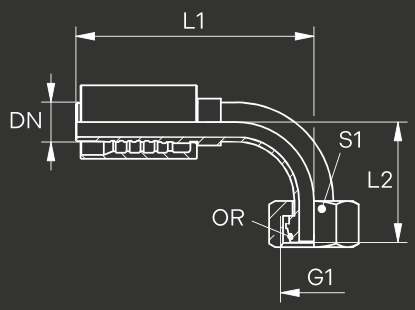
Product Version: Stainless Steel (SS)

BSP Swivel Female 90

Swage fitting, DKOR angle 90°



Application:	Swage fitting for MH800 hose
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	L1	L2	S1	OR
STMI7-BSF-90S-0808-MC	12	8	1/2"	G 1/2"–14	87.0	40.5	27	12.1 x 1.6
STMI7-BSF-90S-1212-MC	19	12	3/4"	G 3/4"–14	127.5	68.2	32	17.1 x 1.6
STMI7-BSF-90S-1616-MC	25	16	1"	G 1"–11	158.0	81.7	41	22.1 x 1.6
STMI7-BSF-90S-2020-MC	31	20	1.1/4"	G 1.1/4"–11	182.0	106.5	50	29.1 x 1.6
STMI7-BSF-90S-2424-MC	38	24	1.1/2"	G 1.1/2"–11	215.5	123.5	60	35.1 x 1.6

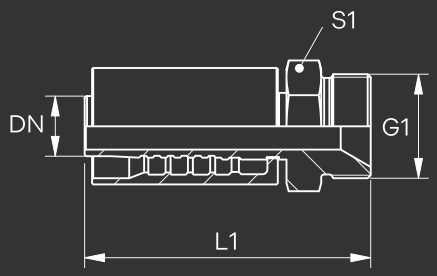
Product Version: Stainless Steel (SS)

BSP Parallel Male

Swage fitting, AGR



Application:	Swage fitting for MH800 hose
Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Short code:	AGR
Standard:	ISO 8434-6, BS 5200
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	L1 mm	S1
STMI7-BPM-0808-MC	12	8	1/2″	G 1/2″–14	79.3	27
STMI7-BPM-1010-MC	16	10	5/8″	G 5/8″–14	92.8	30
STMI7-BPM-1212-MC	19	12	3/4″	G 3/4″–14	97.5	32
STMI7-BPM-1616-MC	25	16	1″	G 1″–11	114.5	41
STMI7-BPM-2020-MC	31	20	1.1/4″	G 1.1/4″–11	125.5	50
STMI7-BPM-2424-MC	38	24	1.1/2″	G 1.1/2″–11	143.5	55
STMI7-BPM-3232-MC	51	32	2″	G 2″–11	-	-

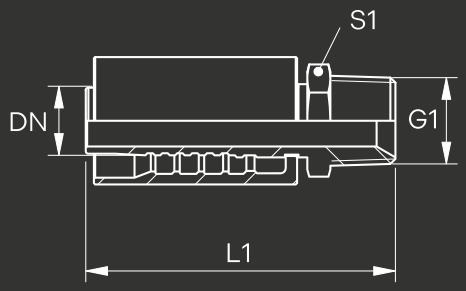
Product Version: Stainless Steel (SS)

NP Tapered Male

Swage fitting, AGN



Application:	Swage fitting for MH800 hose
Connection 1:	NPT external threads
Sealing form 1:	Thread seal, additional 60° inner cone
Short code:	AGN
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	L1 mm	S1
STMI7-NTM-1212-MC	19	12	3/4″	3/4″–14 NPT	98.0	27
STMI7-NTM-1616-MC	25	16	1″	1″–11.5 NPT	116.0	36
STMI7-NTM-2020-MC	31	20	1.1/4″	1.1/4″–11.5 NPT	124.5	46
STMI7-NTM-2424-MC	38	24	1.1/2″	1.1/2″–11.5 NPT	139.5	50

Product Version: Stainless Steel (SS)

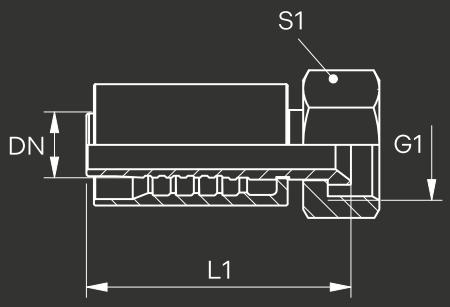
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JIC Swivel Female

Swage fitting, DKJ



Application:	Swage fitting for MH800 hose
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	L1 mm	S1
STMI7-JIF-0808-MC	12	8	1/2″	3/4″–16 UNF	67.4	24
STMI7-JIF-0810-MC	12	8	1/2″	7/8″–14 UNF	66.5	25
STMI7-JIF-1010-MC	16	10	5/8″	7/8″–14 UNF	79.5	25
STMI7-JIF-1012-MC	16	10	5/8″	1.1/16″–12 UN	81.0	30

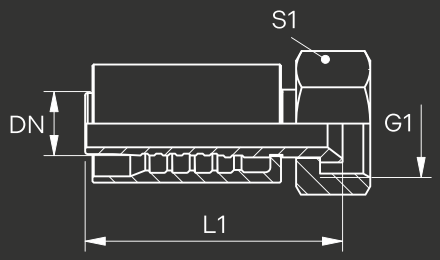
Product Version: Stainless Steel (SS)

JIC Swivel Female (Breaker Operation)

Swage fitting, DKJ



Application:	Swage fitting for MH800 hose
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2 DN
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Additional feature:	For breaker operation
Material:	Steel
Surface:	MotusCoat™
Description:	Reinforced design for extreme loads, e.g. use in hammers.



Identification	DN	Size	Inches	G1	L1 mm	S1
STMI7-JIF-1212-BO-MC	19	12	3/4″	1.1/16″–12 UN	91.5	32
STMI7-JIF-1616-BO-MC	25	16	1″	1.5/16″–12 UN	98.2	41
STMI7-JIF-1620-BO-MC	25	16	1″	1.5/8″–12 UN	111.0	50

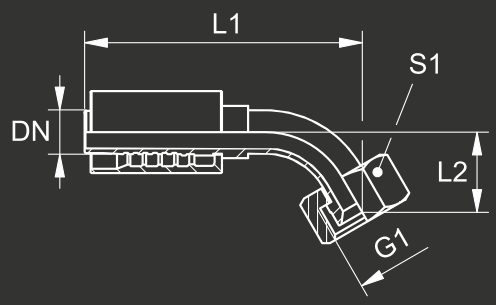
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JIC Swivel Female 45

Swage fitting, DKJ angle 45°



Application:	Swage fitting for MH800 hose
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone (JIC)
Short code:	DKJ
Standard:	ISO 8434-2 / SAE J514
Integration:	With pull-out protection (interlock)
Included in scope:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN mm	Size	Inches	G1	L1 mm	L2 mm	S1
STMI7-JIF-45S-0808-MC	12	8	1/2"	3/4"-16 UNF	92.8	21.5	24
STMI7-JIF-45S-0810-MC	12	8	5/8"	7/8"-14 UNF	92.8	20.0	25
STMI7-JIF-45S-1010-MC	16	10	5/8"	7/8"-14 UNF	116.5	25.0	25
STMI7-JIF-45S-1012-MC	16	10	5/8"	1.1/16"-12 UN	114.0	23.5	32

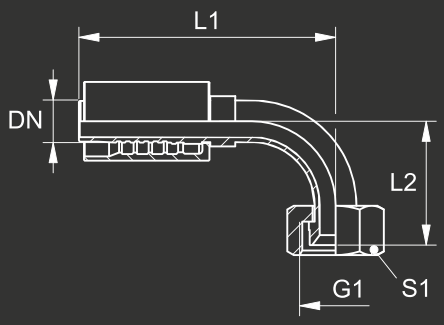
Product Version: Stainless Steel (SS)

JIC Swivel Female 90

Swage fitting, DKJ angle 90°



Application:	Swage fitting for MH800 hose
Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone (JIC)
Short code:	DKJ
Standard:	ISO 8434-2 / SAE J514
Integration:	With pull-out protection (interlock)
Included in scope:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN mm	Size	Inches	G1	L1 mm	L2 mm	S1
STMI7-JIF-90S-0808-MC	12	8	1/2″	3/4″-16 UNF	87.0	43.5	24
STMI7-JIF-90S-0810-MC	12	8	1/2″	7/8″-14 UNF	87.0	40.0	25
STMI7-JIF-90S-1010-MC	16	10	5/8″	7/8″-14 UNF	109.0	51.0	25
STMI7-JIF-90S-1012-MC	16	10	5/8″	1.1/16″-12 UN	107.5	50.0	32

Product Version: Stainless Steel (SS)

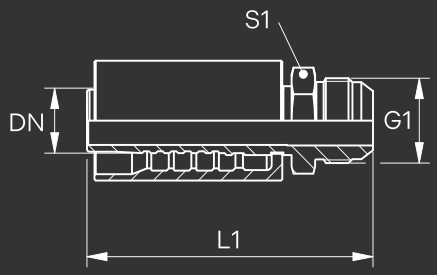
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JIC Male

Swage fitting, AGJ



Application:	Swage fitting for MH800 hose
Connection 1:	UN / UNF external threads
Sealing form 1:	74° outer cone
Short code:	AGJ
Standard:	ISO 8434-2
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	L1 mm	S1
STMI7-JIM-0808-MC	12	8	1/2″	3/4″–16 UNF	77.2	22
STMI7-JIM-0810-MC	12	8	1/2″	7/8″–14 UNF	80.4	24
STMI7-JIM-1010-MC	16	10	5/8″	7/8″–14 UNF	92.0	24
STMI7-JIM-1212-MC	19	12	3/4″	1.1/16″–12 UN	102.5	27
STMI7-JIM-1616-MC	25	16	1″	1.5/16″–12 UN	117.0	36
STMI7-JIM-2020-MC	31	20	1.1/4″	1.5/8″–12 UN	127.0	46
STMI7-JIM-2424-MC	38	24	1.1/2″	1.7/8″–12 UN	145.5	50

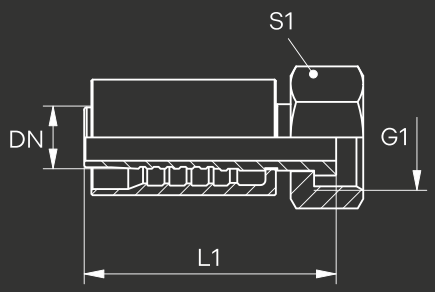
Product Version: Stainless Steel (SS)

ORFS Swivel Female

Swage fitting, ORFS



Application:	Swage fitting for MH800 hose
Connection 1:	UN / UNF nut threads
Sealing form 1:	Flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	L1 mm	S1
STMI7-ORF-0813-MC	12	8	1/2″	13/16″–16 UN	65.8	27
STMI7-ORF-1016-MC	16	10	5/8″	1″–14 UNS	82.0	30
STMI7-ORF-1019-MC	16	10	5/8″	1.3/16″–12 UN	82.0	36
STMI7-ORF-1219-MC	19	12	3/4″	1.3/16″–12 UN	94.5	36
STMI7-ORF-1623-MC	25	16	1″	1.7/16″–12 UN	108.5	41
STMI7-ORF-2027-MC	31	20	1.1/4″	1.11/16″–12 UN	115.5	50
STMI7-ORF-2432-MC	38	24	1.1/2″	2″–12 UN	127.5	60

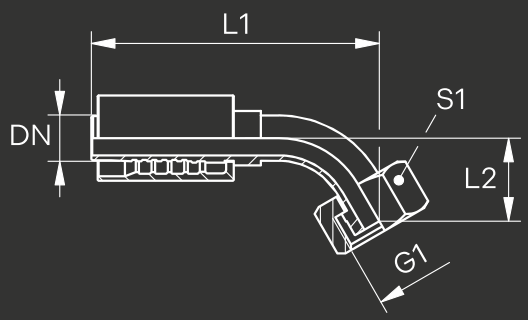
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ORFS Swivel Female 45

Swage fitting, ORFS angle 45°



Application:	Swage fitting for MH800 hose
Connection 1:	UN / UNF nut threads
Sealing form 1:	Flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



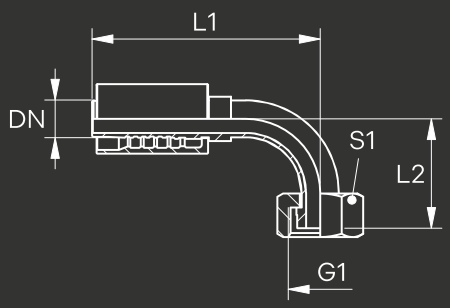
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
STMI7-ORF-45S-0813-MC	12	8	1/2″	11/16″–16 UN	91.5	21.5	27
STMI7-ORF-45S-1016-MC	16	10	5/8″	1″–14 UNS	111.0	20.0	30
STMI7-ORF-45S-1219-MC	19	12	3/4″	1.3/16″–12 UN	133.0	26.5	36
STMI7-ORF-45S-1623-MC	25	16	1″	1.7/16″–12 UN	160.5	31.0	41
STMI7-ORF-45S-2027-MC	31	20	1.1/4″	1.11/16″–12 UN	178.0	34.0	50
STMI7-ORF-45S-2432-MC	38	24	1.1/2″	2″–12 UN	209.0	32.0	60

ORFS Swivel Female 90

Swage fitting, ORFS angle 90°



Application:	Swage fitting for MH800 hose
Connection 1:	UN / UNF nut threads
Sealing form 1:	Flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
STMI7-ORF-90S-0813-MC	12	8	1/2"	13/16"–16 UN	85.5	43.5	27
STMI7-ORF-90S-1016-MC	16	10	5/8"	1"–14 UNS	106.5	47.5	30
STMI7-ORF-90S-1219-MC	19	12	3/4"	1.3/16"–12 UN	126.0	56.0	36
STMI7-ORF-90S-1623-MC	25	16	1"	1.7/16"–12 UN	157.5	68.0	41
STMI7-ORF-90S-2027-MC	31	20	1.1/4"	1.11/16"–12 UN	171.5	76.0	50
STMI7-ORF-90S-2432-MC	38	24	1.1/2"	2"–12 UN	207.0	88.5	60

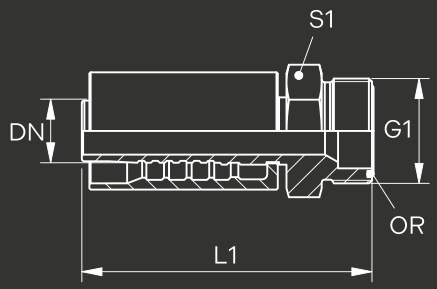
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ORFS Male

Swage fitting, ORFS



Application:	Swage fitting for MH800 hose
Connection 1:	UN / UNF external threads
Sealing form 1:	Flat seal with O-ring
Short code:	ORFS
Standard:	ISO 8434-3
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



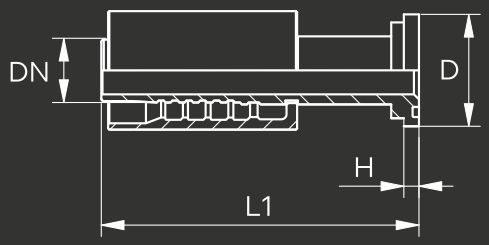
Identification	DN	Size	Inches	G1	L1	S1	OR
STMI7-ORM-0813-MC	12	8	1/2″	13/16″–16 UN	73.8	22	12.42 x 1.78
STMI7-ORM-1016-MC	16	10	5/8″	1″–14 UNS	89.4	27	15.60 x 1.78
STMI7-ORM-1219-MC	19	12	3/4″	1.3/16″–12 UN	101.0	32	18.77 x 1.78
STMI7-ORM-1623-MC	25	16	1″	1.7/16″–12 UN	117.5	36	23.52 x 1.78

Code 61 Flange

Swage fitting, SFL



Application:	Swage fitting for MH800 hose
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	Flange sizes	D mm	H mm	L1 mm
STMI7-F61-0808-MC	12	8	1/2″	1/2″	30.2	6.7	90.4
STMI7-F61-0812-MC	12	8	1/2″	3/4″	38.1	6.7	91.6
STMI7-F61-1012-MC	16	10	3/8″	3/4″	38.1	6.7	102.6
STMI7-F61-1212-MC	19	12	3/4″	3/4″	38.1	6.8	116.5
STMI7-F61-1216-MC	19	12	3/4″	1″	44.5	8.1	119.5
STMI7-F61-1612-MC	25	16	1″	3/4″	38.1	6.8	132.0
STMI7-F61-1616-MC	25	16	1″	1″	44.5	8.1	135.5
STMI7-F61-1620-MC	25	16	1″	1.1/4″	50.8	8.1	138.5
STMI7-F61-2016-MC	31	20	1.1/4″	1″	44.5	8.0	145.0
STMI7-F61-2024-MC	31	20	1.1/4″	1.1/2″	60.3	8.0	129.0
STMI7-F61-2020-MC	31	20	1.1/4″	1.1/4″	50.8	8.0	144.5
STMI7-F61-2420-MC	38	24	1.1/2″	1.1/4″	50.8	8.1	158.0
STMI7-F61-2424-MC	38	24	1.1/2″	1.1/2″	60.3	8.1	166.5
STMI7-F61-2432-MC	38	24	1.1/2″	2″	71.4	9.6	169.5

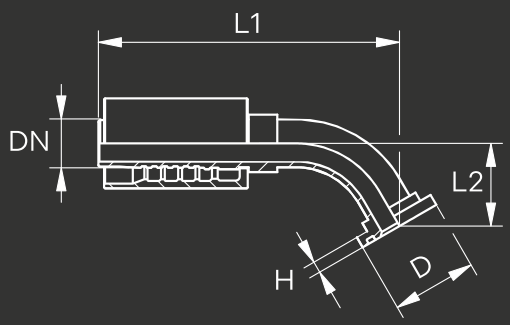
Product Version: Stainless Steel (SS)

Code 61 Flange 45

Swage fitting, SFL angle 45°



Application:	Swage fitting for MH800 hose
Connection 1:	SAE flange connection 3000 PSI
L1 Sealing form 1:	Flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STMI7-F61-45S-0808-MC	12	8	1/2″	1/2″	30.2	6.7	94.5	22.5
STMI7-F61-45S-0812-MC	12	8	1/2″	3/4″	38.1	6.7	126.0	26.5
STMI7-F61-45S-1212-MC	19	12	3/4″	3/4″	38.1	6.8	132.5	27.5
STMI7-F61-45S-1216-MC	19	12	3/4″	1″	44.5	8.1	134.5	29.5
STMI7-F61-45S-1612-MC	25	16	1″	3/4″	38.1	6.8	153.0	30.0
STMI7-F61-45S-1616-MC	25	16	1″	1″	44.5	8.1	159.0	28.5
STMI7-F61-45S-1620-MC	25	16	1″	1.1/4″	50.8	8.1	161.0	30.5
STMI7-F61-45S-2016-MC	31	20	1.1/4″	1″	44.5	8.0	170.5	35.0
STMI7-F61-45S-2020-MC	31	20	1.1/4″	1.1/4″	50.8	8.0	181.5	41.5
STMI7-F61-45S-2024-MC	31	20	1.1/4″	1.1/2″	60.3	8.0	188.0	43.5
STMI7-F61-45S-2420-MC	38	24	1.1/2″	1.1/4″	50.8	8.1	199.5	42.0
STMI7-F61-45S-2424-MC	38	24	1.1/2″	1.1/2″	60.3	8.1	212.5	41.5
STMI7-F61-45S-2432-MC	38	24	1.1/2″	2″	71.4	9.6	233.5	58.5

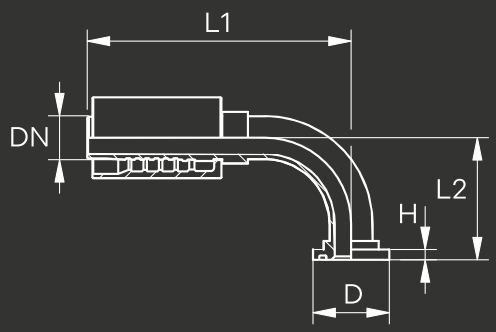
Product Version: Stainless Steel (SS)

Code 61 Flange 90

Swage fitting, SFL angle 90°



Application:	Swage fitting for MH800 hose
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STMI7-F61-90S-0808-MC	12	8	1/2″	1/2″	30.2	6.7	85.9	45.0
STMI7-F61-90S-0812-MC	12	8	1/2″	3/4″	38.1	6.7	96.0	51.0
STMI7-F61-90S-1212-MC	19	12	3/4″	3/4″	38.1	6.8	127.5	58.0
STMI7-F61-90S-1212-MC L95	19	12	3/4″	3/4″	38.1	6.8	127.5	95.0
STMI7-F61-90S-1212-MC L100	19	12	3/4″	3/4″	38.1	6.8	127.5	100.0
STMI7-F61-90S-1212-MC L120	19	12	3/4″	3/4″	38.1	6.8	127.5	120.0
STMI7-F61-90S-1216-MC	19	12	3/4″	1″	44.5	8.1	127.5	61.0
STMI7-F61-90S-1216-MC L82	19	12	3/4″	1″	44.5	8.1	127.5	82.0
STMI7-F61-90S-1612-MC	25	16	1″	3/4″	38.1	6.8	144.0	64.5
STMI7-F61-90S-1616-MC	25	16	1″	1″	44.5	8.1	158.0	67.0
STMI7-F61-90S-1620-MC	25	16	1″	1.1/4″	50.8	8.1	158.0	69.5
STMI7-F61-90S-2016-MC	31	20	1.1/4″	1″	44.5	8.0	162.0	76.0
STMI7-F61-90S-2020-MC	31	20	1.1/4″	1.1/4″	50.8	8.0	173.0	88.0
STMI7-F61-90S-2024-MC	31	20	1.1/4″	1.1/2″	60.3	8.0	177.0	95.0
STMI7-F61-90S-2420-MC	38	24	1.1/2″	1.1/4″	50.8	8.1	190.5	93.0
STMI7-F61-90S-2424-MC	38	24	1.1/2″	1.1/2″	60.3	8.1	208.5	99.0
STMI7-F61-90S-2432-MC	38	24	1.1/2″	2″	71.4	9.6	218.0	104.0

Product Version: Stainless Steel (SS)

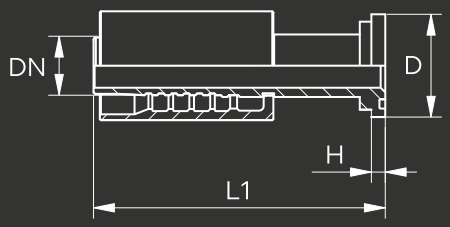
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Code 62 Flange

Swage fitting, SFS



Application:	Swage fitting for MH800 hose
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	Flange size	D	H	L1
STMI7-F62-0808-MC	12	8	1/2″	1/2″	31.8	7.7	90.4
STMI7-F62-0812-MC	12	8	1/2″	3/4″	41.3	8.8	93.9
STMI7-F62-1008-MC	16	10	5/8″	1/2″	31.8	7.7	108.0
STMI7-F62-1016-MC	16	10	5/8″	1″	47.6	9.5	103.0
STMI7-F62-1020-MC	16	10	5/8″	3/4″	41.3	8.8	102.0
STMI7-F62-1212-MC	19	12	3/4″	3/4″	41.3	8.8	124.5
STMI7-F62-1216-MC	19	12	3/4″	1″	47.6	9.6	129.0
STMI7-F62-1612-MC	25	16	1″	3/4″	41.3	8.8	134.0
STMI7-F62-1616-MC	25	16	1″	1″	47.6	9.6	146.5
STMI7-F62-1620-MC	25	16	1″	1.1/4″	54.0	10.4	151.0
STMI7-F62-2016-MC	31	20	1.1/4″	1″	47.6	9.5	149.0
STMI7-F62-2020-MC	31	20	1.1/4″	1.1/4″	54.0	10.3	147.6
STMI7-F62-2024-MC	31	20	1.1/4″	1.1/2″	63.5	12.6	162.0
STMI7-F62-2420-MC	38	24	1.1/2″	1.1/4″	54.0	10.4	162.0
STMI7-F62-2424-MC	38	24	1.1/2″	1.1/2″	63.5	12.7	183.5
STMI7-F62-2432-MC	38	24	1.1/2″	2″	79.4	12.7	188.0
STMI7-F62-3232-MC	51	32	2″	2″	79.4	12.6	233.0

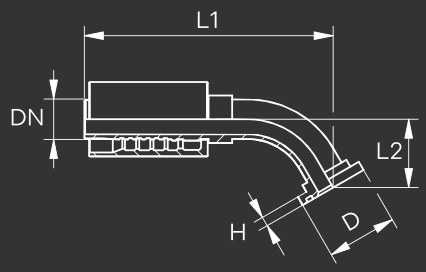
Product Version: Stainless Steel (SS)

Code 62 Flange 45

Swage fitting, SFS angle 45°



Application:	Swage fitting for MH800 hose
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STMI7-F62-45S-0808-MC	12	8	1/2″	1/2″	31.8	7.7	95.5	23.0
STMI7-F62-45S-0812-MC	12	8	1/2″	3/4″	41.3	8.8	99.9	23.0
STMI7-F62-45S-1008-MC	16	10	5/8″	1/2″	31.8	7.7	114.0	21.5
STMI7-F62-45S-1012-MC	16	10	5/8″	3/4″	41.3	8.8	117.5	25.0
STMI7-F62-45S-1016-MC	16	10	5/8″	1″	47.6	9.5	121.0	29.0
STMI7-F62-45S-1212-MC	19	12	3/4″	3/4″	41.3	8.8	135.5	30.0
STMI7-F62-45S-1212-MC L52	19	12	3/4″	3/4″	41.3	8.8	217.0	52.0
STMI7-F62-45S-1212-MC L75	19	12	3/4″	3/4″	41.3	8.8	252.0	75.0
STMI7-F62-45S-1212-MC L100	19	12	3/4″	3/4″	41.3	8.8	268.0	100.0
STMI7-F62-45S-1216-MC	19	12	3/4″	1″	47.6	9.6	139.5	34.5
STMI7-F62-45S-1612-MC	25	16	1″	3/4″	41.3	8.8	164.0	36.5
STMI7-F62-45S-1616-MC	25	16	1″	1″	47.6	9.6	164.0	33.5
STMI7-F62-45S-1620-MC	25	16	1″	1.1/4″	54.0	10.4	169.0	38.5
STMI7-F62-45S-2016-MC	31	20	1.1/4″	1″	47.6	9.5	173.5	38.0
STMI7-F62-45S-2020-MC	31	20	1.1/4″	1.1/4″	54.0	10.3	187.0	44.0
STMI7-F62-45S-2024-MC	31	20	1.1/4″	1.1/2″	63.5	12.6	191.5	47.5
STMI7-F62-45S-2420-MC	38	24	1.1/2″	1.1/4″	54.0	10.4	217.5	51.5
STMI7-F62-45S-2424-MC	38	24	1.1/2″	1.1/2″	63.5	12.6	222.0	49.0
STMI7-F62-45S-2432-MC	38	24	1.1/2″	2″	79.4	12.6	236.0	61.0
STMI7-F62-45S-3232-MC	51	32	2″	2″	79.4	12.6	274.0	56.0

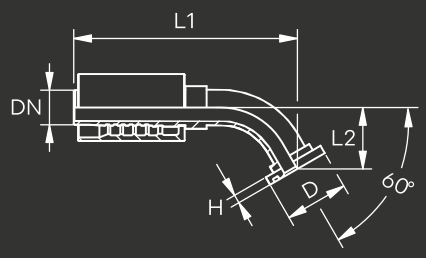
Product Version: Stainless Steel (SS)

Code 62 Flange Swept 60

Swage fitting, SFS angle 60°



Application:	Swage fitting for MH800 hose
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	With pull-out protection (interlock) D 60°
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



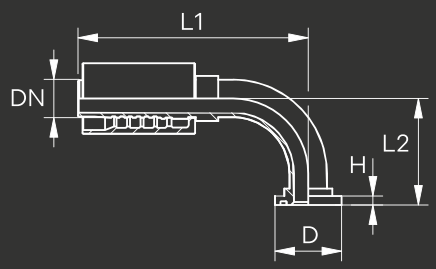
Identification	DN	Size	Inches	Flange size	D mm	H mm
STMI7-F62-60S-1616-MC	25	16	1″	1″	47.6	9.5

Code 62 Flange 90

Swage fitting, SFS angle 90°



Application:	Swage fitting for MH800 hose
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	With pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	Flange sizes	D mm	H mm	L1 mm	L2 mm
STMI7-F62-90S-0808-MC	12	8	1/2″	1/2″	31.8	7.7	86.0	46.0
STMI7-F62-90S-0812-MC	12	8	1/2″	3/4″	41.3	8.8	92.5	46.0
STMI7-F62-90S-1008-MC	16	10	5/8″	1/2″	31.8	7.7	108.0	48.0
STMI7-F62-90S-1012-MC	16	10	5/8″	3/4″	41.3	8.8	107.5	52.5
STMI7-F62-90S-1016-MC	16	10	5/8″	1″	47.6	9.5	108.0	57.0
STMI7-F62-90S-1208-MC L80	19	12	3/4″	1/2″	31.8	7.8	117.0	80.0
STMI7-F62-90S-1208-MC L100	19	12	3/4″	1/2″	31.8	7.8	117.0	100.0
STMI7-F62-90S-1212-MC	19	12	3/4″	3/4″	41.3	8.8	127.5	62.0
STMI7-F62-90S-1212-MC L52	19	12	3/4″	3/4″	41.3	8.8	127.5	52.0
STMI7-F62-90S-1212-MC L80	19	12	3/4″	3/4″	41.3	8.8	127.5	80.0
STMI7-F62-90S-1212-MC L85	19	12	3/4″	3/4″	41.3	8.8	127.5	85.0
STMI7-F62-90S-1212-MC L100	19	12	3/4″	3/4″	41.3	8.8	127.5	100.0
STMI7-F62-90S-1212-MC L150	19	12	3/4″	3/4″	41.3	8.8	127.5	150.0
STMI7-F62-90S-1216-MC	19	12	3/4″	1″	47.6	9.6	127.5	68.0
STMI7-F62-90S-1612-MC	25	16	1″	3/4″	41.3	8.8	152.5	70.5
STMI7-F62-90S-1616-MC	25	16	1″	1″	47.6	9.6	158.0	74.0
STMI7-F62-90S-1616-MC L100	25	16	1″	1″	47.6	9.6	158.0	100.0
STMI7-F62-90S-1616-MC L200	25	16	1″	1″	47.6	9.6	158.0	200.0
STMI7-F62-90S-1620-MC	25	16	1″	1.1/4″	54.0	10.4	156.0	83.5
STMI7-F62-90S-2016-MC	31	20	1.1/4″	1″	47.6	9.5	162.0	80.0
STMI7-F62-90S-2020-MC	31	20	1.1/4″	1.1/4″	54.0	10.3	173.5	94.5
STMI7-F62-90S-2020-MC L120	31	20	1.1/4″	1.1/4″	54.0	10.3	173.5	120.0
STMI7-F62-90S-2024-MC	31	20	1.1/4″	1.1/2″	63.5	12.6	174.5	100.0
STMI7-F62-90S-2420-MC	38	24	1.1/2″	1.1/4″	54.0	10.3	193.0	100.0
STMI7-F62-90S-2424-MC	38	24	1.1/2″	1.1/2″	63.5	12.6	213.5	110.0
STMI7-F62-90S-2432-MC	38	24	1.1/2″	2″	79.4	12.6	215.5	126.0
STMI7-F62-90S-3232-MC	51	32	2″	2″	79.4	12.6	268.0	138.0

Product Version: Stainless Steel (SS)

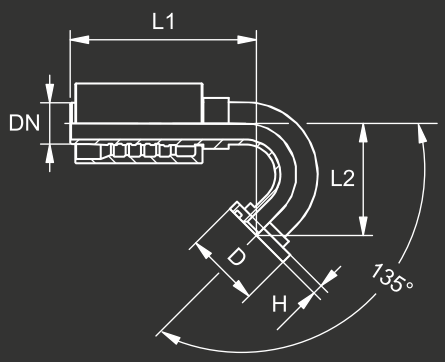
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Code 62 Flange Swept 135

Swage fitting, SFS angle 135°



Application:	Swage fitting for MH800 hose
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	Flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	With pull-out protection (interlock)
Included in scope:	Swage nipple + swage ferrule
Material:	Steel
Surface:	MotusCoat™



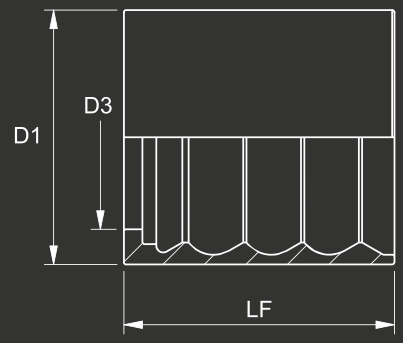
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
STMI7-F62-135S-1616-MC	25	16	1"	1"	47.6	9.5	170.0	100.0

SN09 (Suits MH900 Hose)

Swage ferrule, MH 900



Ferrule type:	Non-skive ferrule
Material:	Steel
Surface:	MotusCoat™



Identification	DN	Size	Inches	D1 mm	D3 mm	LF mm
SN09-12-MC	19	12	3/4″	39.5	25.0	35.0
SN09-16-MC	25	16	1″	46.0	32.7	44.0
SN09-20-MC	31	20	1.1/4″	55.0	39.8	58.5
SN09-24-MC	38	24	1.1/2″	65.0	45.8	63.0
SN09-32-MC	51	32	2″	75.0	59.8	78.0

DN = Nominal diameter, nominal width

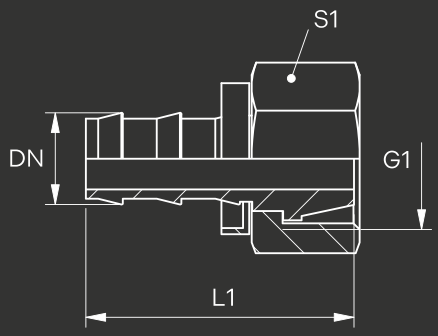
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EASYLOCK - Metric Light Swivel Female

Plug-in nipple, DKL



Connection 1:	Metric nut thread
Sealing form 1:	24° / 60° Universal sealing head
Short code:	DKL
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

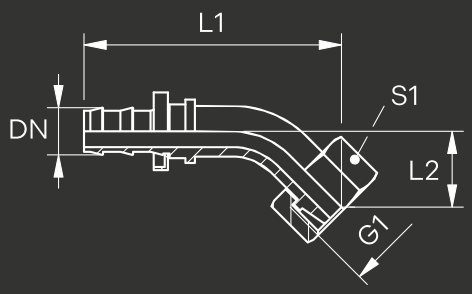
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
ELT-MLF-0412-MC	6	4	1/4″	M12 x 1.5	6	33.0	14
ELT-MLF-0414-MC	6	4	1/4″	M14 x 1.5	8	33.0	17
ELT-MLF-0416-MC	6	4	1/4″	M16 x 1.5	10	34.0	19
ELT-MLF-0616-MC	10	6	3/8″	M16 x 1.5	10	38.0	19
ELT-MLF-0618-MC	10	6	3/8″	M18 x 1.5	12	38.0	22
ELT-MLF-0818-MC	12	8	1/2″	M18 x 1.5	12	38.0	22
ELT-MLF-0822-MC	12	8	1/2″	M22 x 1.5	15	43.5	27
ELT-MLF-1022-MC	16	10	5/8″	M22 x 1.5	15	56.0	27
ELT-MLF-1026-MC	16	10	5/8″	M26 x 1.5	18	53.0	32
ELT-MLF-1230-MC	19	12	3/4″	M30 x 2	22	53.5	36
ELT-MLF-2536-MC	25	16	1″	M36 x 2	28	58.0	41

EASYLOCK - Metric Light Swivel Female 45

Plug-in nipple, DKL angle 45°



Connection 1:	Metric nut thread
Sealing form 1:	24° / 60° Universal sealing head
Short code:	DKL
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1
ELT-MLF-45S-0412-MC	6	4	1/4"	M12 x 1.5	6	51.0	16.0	14
ELT-MLF-45S-0414-MC	6	4	1/4"	M14 x 1.5	8	51.0	16.0	17
ELT-MLF-45S-0616-MC	10	6	3/8"	M16 x 1.5	10	58.0	18.0	19
ELT-MLF-45S-0618-MC	10	6	3/8"	M18 x 1.5	12	59.0	18.0	22
ELT-MLF-45S-0822-MC	12	8	1/2"	M22 x 1.5	15	68.0	19.0	27
ELT-MLF-45S-1026-MC	16	10	5/8"	M26 x 1.5	18	81.0	21.0	32
ELT-MLF-45S-1230-MC	19	12	3/4"	M30 x 2	22	88.0	23.0	36
ELT-MLF-45S-1636-MC	25	16	1"	M36 x 2	28	105.0	30.0	41

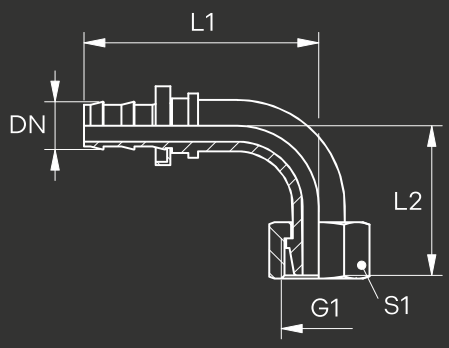
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EASYLOCK - Metric Light Swivel Female 90

Plug-in nipple, DKL angle 90°



Connection 1:	Metric nut thread
Sealing form 1:	24° / 60° Universal sealing head
Short code:	DKL
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

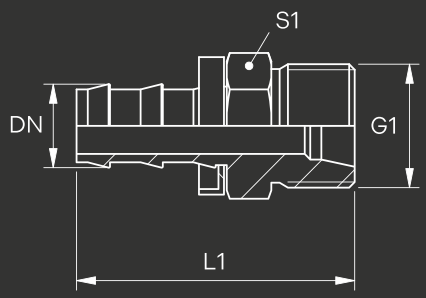
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1
ELT-MLF-90S-0412-MC	6	4	1/4"	M12 x 1.5	6	42.0	29.0	14
ELT-MLF-90S-0414-MC	6	4	1/4"	M14 x 1.5	8	42.0	29.0	17
ELT-MLF-90S-0416-MC	6	4	1/4"	M16 x 1.5	10	42.0	29.0	19
ELT-MLF-90S-0616-MC	10	6	3/8"	M16 x 1.5	10	49.0	33.0	19
ELT-MLF-90S-0618-MC	10	6	3/8"	M18 x 1.5	12	49.0	34.0	22
ELT-MLF-90S-0822-MC	12	8	1/2"	M22 x 1.5	15	60.0	39.0	27
ELT-MLF-90S-1026-MC	16	10	5/8"	M26 x 1.5	18	74.0	43.0	32
ELT-MLF-90S-1230-MC	19	12	3/4"	M30 x 2	22	88.0	50.0	36
ELT-MLF-90S-1636-MC	25	16	1"	M36 x 2	28	99.0	70.0	41

EASYLOCK - Metric Light Male

Plug-in nipple, CEL



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	24° inner cone
Short code:	CEL
Standard:	ISO 8434-1
Material:	Steel
Surface:	MotusCoat™



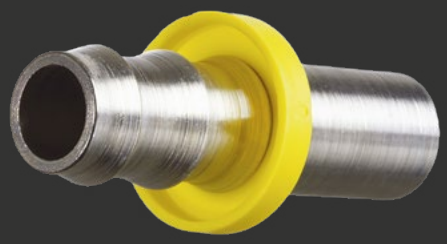
Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1 mm
ELT-MLM-0412-MC	6	4	1/4″	M 12 x 1.5	6	35.0	12
ELT-MLM-0414-MC	6	4	1/4″	M 14 x 1.5	8	36.0	14
ELT-MLM-0616-MC	10	6	3/8″	M 16 x 1.5	10	41.5	17
ELT-MLM-0618-MC	10	6	3/8″	M 18 x 1.5	12	41.0	19
ELT-MLM-0822-MC	12	8	1/2″	M 22 x 1.5	15	49.0	22
ELT-MLM-1026-MC	16	10	3/8″	M 26 x 1.5	18	58.0	27
ELT-MLM-1230-MC	19	12	3/4″	M 30 x 2	22	63.0	30

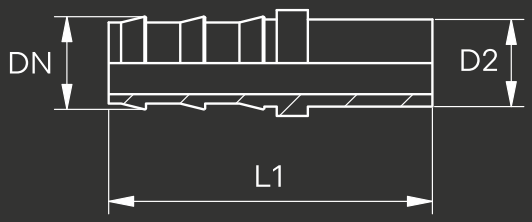
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EASYLOCK - Metric Standpipe

Plug-in nipple, BEL / BES



Connection 1:	Pipe sockets
Sealing form 1:	Cutting ring connection
Short code:	BEL / BES
Standard:	ISO 8434-1
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples may be reused. Final cutting ring assembly must be done in the hardened pre-assembly socket (VOM...). Not for new designs; use ND...AOL for ND...FL.

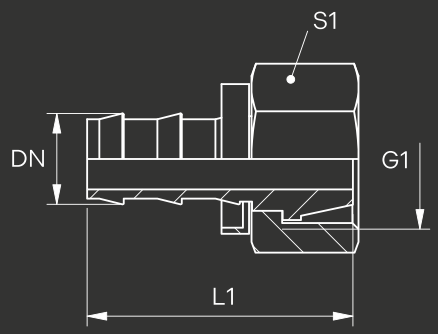
Identification	DN	Size	Inches	Series	D2 mm	L1 mm
ELT-MSP-0406-MC	6	4	1/4″	L	6.0	44.0
ELT-MSP-0408-MC	6	4	1/4″	L	8.0	44.0
ELT-MSP-0610-MC	10	6	3/8″	L	10.0	49.0
ELT-MSP-0612-MC	10	6	3/8″	L	12.0	49.0
ELT-MSP-0812-MC	12	8	1/2″	L	12.0	54.0
ELT-MSP-0815-MC	12	8	1/2″	L	15.0	55.0
ELT-MSP-1018-MC	16	10	5/8″	L	18.0	67.0
ELT-MSP-1222-MC	19	12	3/4″	L	22.0	69.0
ELT-MSP-0410-MC	6	4	1/4″	S	10.0	-

EASYLOCK - BSP Swivel Female

Plug-in nipple, DKR



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° outer cone
Short code:	DKR
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	S1
ELT-BSF-0404-MC	6	4	1/4″	G 1/4″–19	33.0	17
ELT-BSF-0606-MC	10	6	3/8″	G 3/8″–19	37.0	19
ELT-BSF-0808-MC	12	8	1/2″	G 1/2″–14	42.0	27
ELT-BSF-1010-MC	16	10	5/8″	G 5/8″–14	53.0	30
ELT-BSF-1212-MC	19	12	3/4″	G 3/4″–14	58.0	32
ELT-BSF-1616-MC	25	16	1″	G 1″–11	57.0	41

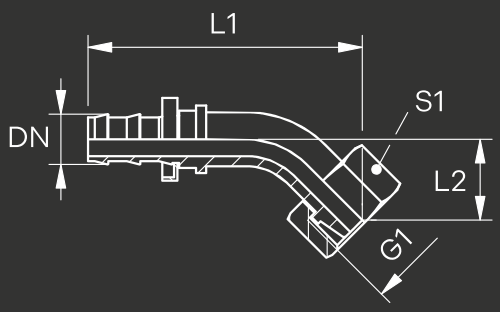
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EASYLOCK - BSP Swivel Female 45

Plug-in nipple, DKR angle 45°



Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Short code:	DKR
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

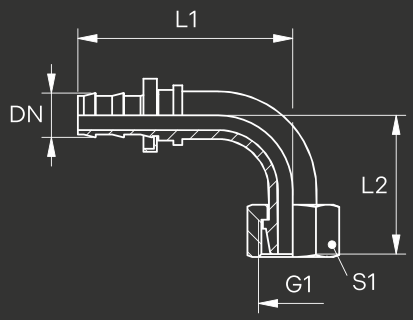
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
ELT-BSF-45S-0404-MC	6	4	1/4″	G 1/4″–19	51.0	16.0	17
ELT-BSF-45S-0606-MC	10	6	3/8″	G 3/8″–19	58.0	18.0	19
ELT-BSF-45S-0808-MC	12	8	1/2″	G 1/2″–14	68.0	19.0	27
ELT-BSF-45S-1010-MC	16	10	5/8″	G 5/8″–14	81.0	21.0	30

EASYLOCK - BSP Swivel Female 90

Plug-in nipple, DKR angle 90°



Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Short code:	DKR
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
ELT-BSF-90S-0404-MC	6	4	1/4″	G 1/4″–19	42.0	29.0	17
ELT-BSF-90S-0606-MC	10	6	3/8″	G 3/8″–19	49.0	33.0	19
ELT-BSF-90S-0808-MC	12	8	1/2″	G 1/2″–14	60.0	39.0	27
ELT-BSF-90S-1010-MC	16	10	5/8″	G 5/8″–14	74.0	43.0	30
ELT-BSF-90S-1212-MC	19	12	3/4″	G 3/4″–14	88.0	53.0	32

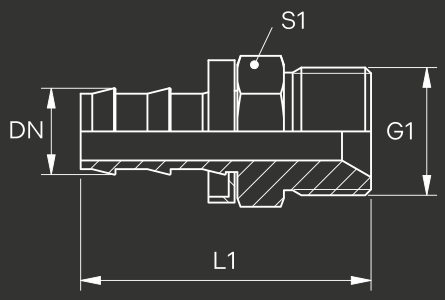
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EASYLOCK - BSP Parallel Male

Plug-in nipple, AGR



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Short code:	AGR
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

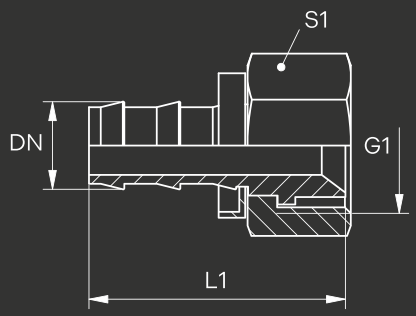
Identification	DN	Size	Inches	G1	L1	S1
ELT-BPM-0402-MC	6	4	1/4"	G 1/8"–28	36.0	17
ELT-BPM-0404-MC	6	4	1/4"	G 1/4"–19	41.0	19
ELT-BPM-0604-MC	10	6	3/8"	G 1/4"–19	44.0	19
ELT-BPM-0606-MC	10	6	3/8"	G 3/8"–19	45.0	22
ELT-BPM-0808-MC	12	8	1/2"	G 1/2"–14	53.0	27
ELT-BPM-1008-MC	16	10	5/8"	G 1/2"–14	-	-
ELT-BPM-1010-MC	16	10	5/8"	G 5/8"–14	65.0	30
ELT-BPM-1212-MC	19	12	3/4"	G 3/4"–14	65.0	32

EASYLOCK - JIC Swivel Female

Plug-in nipple, DKJ



Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	S1
ELT-JIF-0404-MC	6	4	1/4"	7/16"-20 UNF	40.0	14
ELT-JIF-0405-MC	6	4	1/4"	1/2"-20 UNF	40.0	17
ELT-JIF-0606-MC	10	6	3/8"	9/16"-18 UNF	45.0	19
ELT-JIF-0808-MC	12	8	1/2"	3/4"-16 UNF	51.0	22
ELT-JIF-0810-MC	12	8	1/2"	7/8"-14 UNF	65.0	27
ELT-JIF-1010-MC	16	10	5/8"	7/8"-14 UNF	65.0	27
ELT-JIF-1212-MC	19	12	3/4"	1.1/16"–12 UN	67.0	32
ELT-JIF-1616-MC	25	16	1"	1.5/16"–12 UN	70.0	41

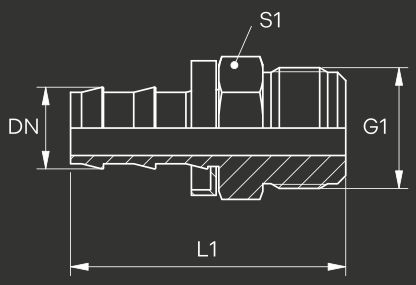
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EASYLOCK - JIC Male

Plug-in nipple, AGJ



Connection 1:	UN / UNF external threads
Sealing form 1:	74° outer cone
Short code:	AGJ
Standard:	ISO 8434-2
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

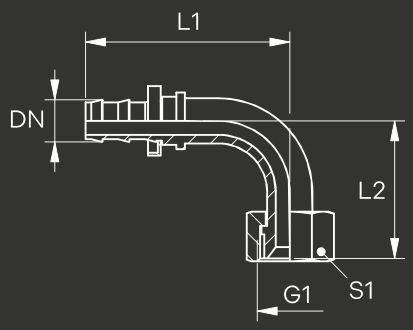
Identification	DN	Size	Inches	G1	L1	S1
ELT-JIM-0606-MC	10	6	3/8"	9/16"-18 UNF	45.0	16
ELT-JIM-0808-MC	12	8	1/2"	3/4"-16 UNF	52.0	19

EASYLOCK - JIC Swivel Female 90

Plug-in nipple, DKJ angle 90°



Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
ELT-JIF-90S-0404-MC	6	4	1/4"	7/16"-20 UNF	39.0	17.0	16
ELT-JIF-90S-0606-MC	10	6	3/8"	9/16"-18 UNF	47.0	23.0	19
ELT-JIF-90S-0808-MC	13	8	1/2"	3/4"-16 UNF	-	-	-
ELT-JIF-90S-1212-MC	19	12	3/4"	1.1/16"–12 UN	83.0	48.0	32

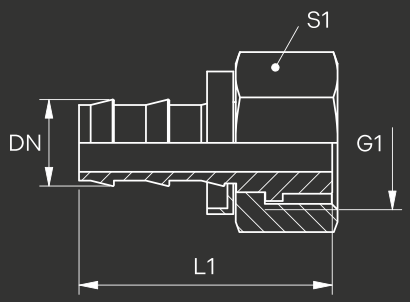
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EASYLOCK - ORFS Swivel Female

Plug-in nipple, ORFS



Connection 1:	UN / UNF nut threads
Sealing form 1:	Flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

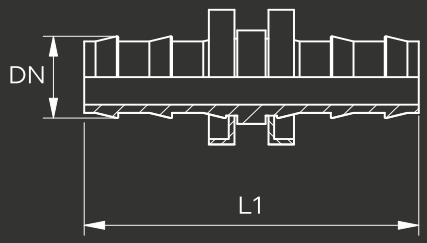
Identification	DN	Size	Inches	G1	L1	S1
ELT-ORF-0409-MC	6	4	1/4"	9/16"–18 UNF	36.0	18
ELT-ORF-0611-MC	10	6	3/8"	11/16"–16 UN	40.0	22
ELT-ORF-0613-MC	10	6	3/8"	13/16"–16 UN	43.0	24
ELT-ORF-0813-MC	12	8	1/2"	13/16"–16 UN	47.0	24
ELT-ORF-1219-MC	19	12	3/4"	1.3/16"–12 UN	67.0	35

EASYLOCK - Tail x Tail

Plug-in nipple, VB



Connection 1 +2:	Hose connection
Design:	Hose connectors
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

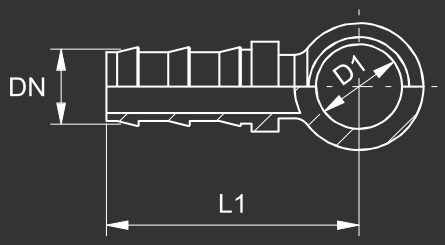
Identification	DN	Size	Inches	L1 mm
ELT-ELT-0404-MC	6	4	1/4″	45.0
ELT-ELT-0606-MC	10	6	3/8″	54.0
ELT-ELT-0808-MC	12	8	1/2″	64.0
ELT-ELT-1010-MC	16	10	5/8″	84.0
ELT-ELT-1212-MC	19	12	3/4″	84.0

EASYLOCK - Metric Banjo

Plug-in nipple, RGN



Connection 1:	Banjo for metric hollow screw
Sealing form 1:	Sealed by copper ring
Connection 2:	Hose connection
Short code:	RGN
Standard:	DIN 7642
Material:	Steel
Surface:	MotusCoat™



Note: Undamaged nipples can be reused.

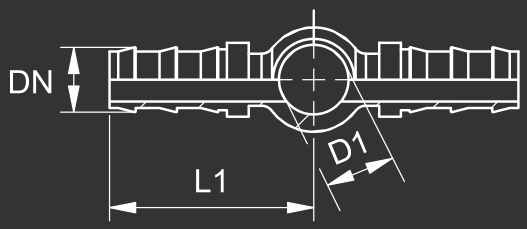
Identification	DN mm	Size	Inches	D1 mm	For hollow screw	L1 mm
ELT-MBJ-0408-MC	6	4	1/4″	8.1	M 8	36.0
ELT-MBJ-0410-MC	6	4	1/4″	10.1	M 10	38.0
ELT-MBJ-0412-MC	6	4	1/4″	12.1	M 12	40.0
ELT-MBJ-0414-MC	6	4	1/4″	14.1	M 14	42.0
ELT-MBJ-0612-MC	10	6	3/8″	12.1	M 12	44.0
ELT-MBJ-0614-MC	10	6	3/8″	14.1	M 14	47.0
ELT-MBJ-0616-MC	10	6	3/8″	16.1	M 16	49.0
ELT-MBJ-0814-MC	12	8	1/2″	14.1	M 14	51.0
ELT-MBJ-0822-MC	12	8	1/2″	22.1	M 22	58.0
ELT-MBJ-1022-MC	16	10	5/8″	22.1	M 22	68.0

EASYLOCK - Double Metric Banjo

Plug-in nipple, RGN



Connection 1:	Banjo for metric hollow screw
Sealing form 1:	Sealed by copper ring
Connection 2 +3:	Hose connection
Design:	Double hose connection
Short code:	RGN
Standard:	DIN 7642
Material:	Steel



Note: Undamaged nipples can be reused.

Identification	DN mm	Size	Inches	D1 mm	For hollow screw	L1 mm
ELT-MBJ-ELT-041004-MC	6	4	1/4″	10.1	M 10	42.0
ELT-MBJ-ELT-041204-MC	6	4	1/4″	12.1	M 12	45.0
ELT-MBJ-ELT-061406-MC	10	6	3/8″	14.1	M 14	49.0

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03



COMPRESSION FITTINGS

Compression fittings provide reliable, mechanical connections for hydraulic and fluid transfer systems without welding. Designed for steel tube applications, they offer consistent sealing performance under vibration and pressure.

This range includes metric and imperial configurations suitable for hydraulic, pneumatic, and industrial installations. Commonly used in fixed plant, mobile equipment, and heavy-duty machinery where strength and serviceability are required.

Finished with MotusCoat™ for enhanced durability and corrosion resistance.

COMPRESSION FITTINGS

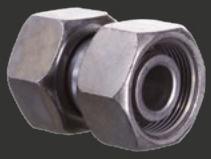
Metric Male Union (G)
164



Metric Straight Bulk-head (SV)
167



Metric Female / Metric Female (GZ)
168



Metric Female / BSP Parallel Male (EGE - R - ED)
172



Metric Female / BSP Parallel Male (EVGE - R - ED)
173



Metric Female / Metric Male (RED)
174



Metric Male / BSP Parallel Male (GE - R - ED)
180



Metric Male / BSP Tapered Male GE - R (KEG)
182



Metric Male / Metric Stud Male (GE - M)
184



Metric Male / NP Tapered Male (GE - NPT)
186



Metric Male / UN'O' Ring Male (GE - UNF / UN)
188



BSP Reducing Bush Short (RI)
190



BSP Reducing Bush Short (RI) ED
191



BSP Reducing Bush Long (RI - ED)
192



Metric Male 90
193



Metric Male / Female 90
194



Metric Male / Metric Standpipe 90
195



Metric Male / BSP Tapered Male 90
196



Metric Male / NP Tapered Male 90
198



Metric Male / BSPP Male Positional 90
200



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Metric Male / Metric Stud Male Positional 90
201



Metric Male / Un'O' Ring Male Positional 90
202



Metric Male Bulkhead 90
203



Metric Male Tee (T)
204



Metric Swivel Branch Tee (ET)
205



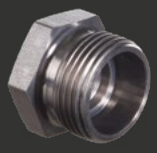
Metric Swivel Running Tee (EL)
206



Metric Plug Insert (BUZ)
207



Metric Male Plug (with Sealing Face)
208



Metric In Hex Plug (Captive Seal)
209



Metric Hex Plug
210



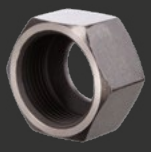
Metric Male / BSP Banjo Male 90
211



Male Metric / Metric Banjo Male 90
212



Metric Union Nut (M)
213



Metric Cutting Ring
214

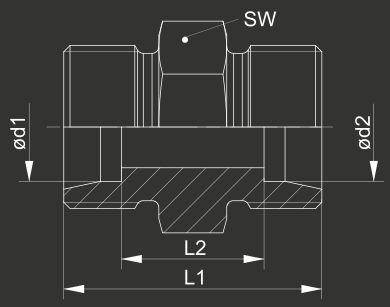


Metric Male Union (G)

Fitting



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	24° inner cone
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Fitting
Construction:	Straight
Standard:	ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d1 mm	Ø d2 mm	L1 mm	L2 mm	SW mm
MLLM-MLLM-0808-MC	LL	PN 100	4	4	20	12.0	9
MLLM-MLLM-1008-MC	LL	PN 100	6	4	20	10.5	11
MLLM-MLLM-1010-MC	LL	PN 100	6	6	20	9.0	11
MLLM-MLLM-1208-MC	LL	PN 100	8	4	22	12.5	12
MLLM-MLLM-1210-MC	LL	PN 100	8	6	22	11.0	12
MLLM-MLLM-1212-MC	LL	PN 100	8	8	23	12.0	12
MLLM-MLLM-1414-MC	LL	PN 100	10	10	23	12.0	14
MLLM-MLLM-1616-MC	LL	PN 100	12	12	23	11.0	17
MLM-MLM-1212-MC	L	PN 315	6	6	24	10.0	12
MLM-MLM-1412-MC	L	PN 315	8	6	25	11.0	14
MLM-MLM-1414-MC	L	PN 315	8	8	25	11.0	14
MLM-MLM-1612-MC	L	PN 315	10	6	26	12.0	17
MLM-MLM-1614-MC	L	PN 315	10	8	26	12.0	17
MLM-MLM-1616-MC	L	PN 315	10	10	27	13.0	17
MLM-MLM-1812-MC	L	PN 315	12	6	27	13.0	19
MLM-MLM-1814-MC	L	PN 315	12	8	27	13.0	19
MLM-MLM-1816-MC	L	PN 315	12	10	28	14.0	19
MLM-MLM-1818-MC	L	PN 315	12	12	28	14.0	19
MLM-MLM-2212-MC	L	PN 315	15	6	28	14.0	24
MLM-MLM-2214-MC	L	PN 315	15	8	28	14.0	24
MLM-MLM-2216-MC	L	PN 315	15	10	29	15.0	24
MLM-MLM-2218-MC	L	PN 315	15	12	29	15.0	24
MLM-MLM-2222-MC	L	PN 315	15	15	30	16.0	24
MLM-MLM-2612-MC	L	PN 315	18	6	29	14.5	27
MLM-MLM-2614-MC	L	PN 315	18	8	29	14.5	27
MLM-MLM-2616-MC	L	PN 315	18	10	30	15.5	27
MLM-MLM-2618-MC	L	PN 315	18	12	30	15.5	27

Metric Male Union (G)

Fitting

Identification	Series	Working pressure bar	Ø d1 mm	Ø d2 mm	L1 mm	L2 mm	SW mm
MLM-MLM-2622-MC	L	PN 315	18	15	31	16.5	27
MLM-MLM-2626-MC	L	PN 315	18	18	31	16.0	27
MLM-MLM-3014-MC	L	PN 160	22	8	31	16.5	32
MLM-MLM-3016-MC	L	PN 160	22	10	32	17.5	32
MLM-MLM-3018-MC	L	PN 160	22	12	32	17.5	32
MLM-MLM-3022-MC	L	PN 160	22	15	33	18.5	32
MLM-MLM-3026-MC	L	PN 160	22	18	33	18.0	32
MLM-MLM-3030-MC	L	PN 160	22	22	35	20.0	32
MLM-MLM-3614-MC	L	PN 160	28	8	33	18.5	41
MLM-MLM-3616-MC	L	PN 160	28	10	34	19.5	41
MLM-MLM-3618-MC	L	PN 160	28	12	34	19.5	41
MLM-MLM-3622-MC	L	PN 160	28	15	35	20.5	41
MLM-MLM-3626-MC	L	PN 160	28	18	35	20.0	41
MLM-MLM-3630-MC	L	PN 160	28	22	37	22.0	41
MLM-MLM-3636-MC	L	PN 160	28	28	36	21.0	41
MLM-MLM-4530-MC	L	PN 160	35	22	39	21.0	46
MLM-MLM-4536-MC	L	PN 160	35	28	39	21.0	46
MLM-MLM-4545-MC	L	PN 160	35	35	41	20.0	46
MLM-MLM-5236-MC	L	PN 160	42	28	41	22.5	55
MLM-MLM-5245-MC	L	PN 160	42	35	43	21.5	55
MLM-MLM-5252-MC	L	PN 160	42	42	66	21.0	55
MLM-MHM-1618-MC	L / S	PN 315	18	16	33	17.0	27
MHM-MHM-1414-MC	S	PN 630	6	6	30	16.0	14
MHM-MHM-1614-MC	S	PN 630	8	6	32	18.0	17
MHM-MHM-1616-MC	S	PN 630	8	8	32	18.0	17
MHM-MHM-1814-MC	S	PN 630	10	6	32	17.5	19
MHM-MHM-1816-MC	S	PN 630	10	8	32	17.5	19
MHM-MHM-1818-MC	S	PN 630	10	10	32	17.0	19
MHM-MHM-2012-MC	S	PN 630	12	6	34	19.5	22
MHM-MHM-2014-MC	S	PN 630	12	8	34	19.5	22
MHM-MHM-2016-MC	S	PN 630	12	10	34	19.0	22
MHM-MHM-2020-MC	S	PN 630	12	12	34	19.0	22
MHM-MHM-2212-MC	S	PN 630	14	6	36	21.0	24
MHM-MHM-2214-MC	S	PN 630	14	8	36	21.0	24
MHM-MHM-2216-MC	S	PN 630	14	10	36	20.5	24
MHM-MHM-2220-MC	S	PN 630	14	12	36	20.5	24
MHM-MHM-2222-MC	S	PN 630	14	14	38	22.0	24
MHM-MHM-2412-MC	S	PN 400	16	6	36	20.5	27
MHM-MHM-2414-MC	S	PN 400	16	8	36	20.5	27
MHM-MHM-2416-MC	S	PN 400	16	10	36	20.0	27
MHM-MHM-2420-MC	S	PN 400	16	12	36	20.0	27
MHM-MHM-2422-MC	S	PN 400	16	14	38	21.5	27
MHM-MHM-2424-MC	S	PN 400	16	16	38	21.0	27

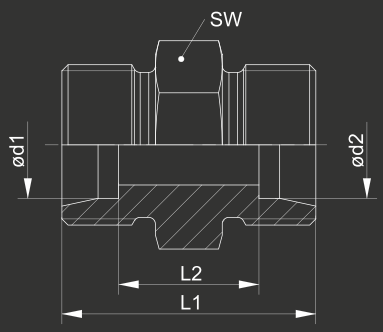
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

Metric Male Union (G)

Fitting



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	24° inner cone
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Fitting
Construction:	Straight
Standard:	ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d1 mm	Ø d2 mm	L1 mm	L2 mm	SW mm
MHM-MHM-3016-MC	S	PN 400	20	10	40	22.0	32
MHM-MHM-3020-MC	S	PN 400	20	12	40	22.0	32
MHM-MHM-3022-MC	S	PN 400	20	14	42	23.5	32
MHM-MHM-3024-MC	S	PN 400	20	16	42	23.0	32
MHM-MHM-3030-MC	S	PN 400	20	20	44	23.0	32
MHM-MHM-3624-MC	S	PN 400	25	16	46	25.5	41
MHM-MHM-3630-MC	S	PN 400	25	20	48	25.5	41
MHM-MHM-3636-MC	S	PN 400	25	25	50	26.0	41
MHM-MHM-4224-MC	S	PN 400	30	16	48	26.0	46
MHM-MHM-4230-MC	S	PN 400	30	20	50	26.0	46
MHM-MHM-4236-MC	S	PN 400	30	25	52	26.5	46
MHM-MHM-4242-MC	S	PN 400	30	30	54	27.0	46
MHM-MHM-5224-MC	S	PN 315	38	16	53	28.5	55
MHM-MHM-5236-MC	S	PN 315	38	25	57	29.0	55
MHM-MHM-5242-MC	S	PN 315	38	30	59	29.5	55
MHM-MHM-5252-MC	S	PN 315	38	38	61	29.0	55
MHM-MLM-2422-MC	S / L	PN 400	16	15	36	20.5	27
MHM-MLM-3022-MC	S / L	PN 400	20	15	40	22.5	32
MHM-MLM-3026-MC	S / L	PN 400	20	18	40	22.0	32
MHM-MLM-3630-MC	S / L	PN 400	25	22	46	26.5	41

Product Version: Stainless Steel (SS)

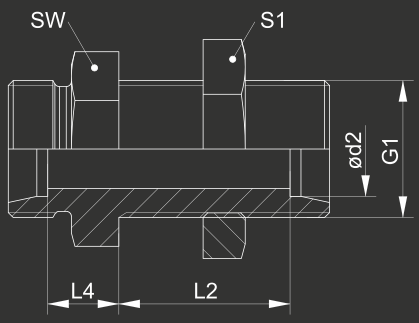
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Metric Straight Bulkhead (SV)

Bulkhead fitting



Connection 1 + 2:	Metric cylindrical outer thread
Sealing form 1 + 2:	24° inner cone
Design:	Bulkhead fitting
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G1	L2 mm	L4 mm	SW mm	S1
MLM-MLB-1212-MC	L	PN 315	6	M 12 x 1.5	27.0	7.0	17	17
MLM-MLB-1414-MC	L	PN 315	8	M 14 x 1.5	27.0	8.0	19	19
MLM-MLB-1616-MC	L	PN 315	10	M 16 x 1.5	28.0	10.0	22	22
MLM-MLB-1818-MC	L	PN 315	12	M 18 x 1.5	29.0	10.0	24	24
MLM-MLB-2222-MC	L	PN 315	15	M 22 x 1.5	31.0	12.0	27	30
MLM-MLB-2626-MC	L	PN 315	18	M 26 x 1.5	32.5	13.5	32	36
MLM-MLB-3030-MC	L	PN 160	22	M 30 x 2	34.5	16.5	36	41
MLM-MLB-3636-MC	L	PN 160	28	M 36 x 2	35.5	18.5	41	46
MLM-MLB-4545-MC	L	PN 160	35	M 45 x 2	36.5	18.5	50	55
MLM-MLB-5252-MC	L	PN 160	42	M 52 x 2	36.0	19.0	60	65
MHM-MHB-1414-MC	S	PN 630	6	M 14 x 1.5	29.0	12.0	19	19
MHM-MHB-1616-MC	S	PN 630	8	M 16 x 1.5	29.0	13.0	22	22
MHM-MHB-1818-MC	S	PN 630	10	M 18 x 1.5	29.5	14.5	24	24
MHM-MHB-2020-MC	S	PN 630	12	M 20 x 1.5	30.5	14.5	27	27
MHM-MHB-2222-MC	S	PN 630	14	M 22 x 1.5	32.0	17.0	30	30
MHM-MHB-2424-MC	S	PN 400	16	M 24 x 1.5	31.5	16.5	32	32
MHM-MHB-3030-MC	S	PN 400	20	M 30 x 2	33.5	17.5	41	41
MHM-MHB-3636-MC	S	PN 400	25	M 36 x 2	35.0	20.0	46	46
MHM-MHB-4242-MC	S	PN 400	30	M 42 x 2	37.5	21.5	50	50
MHM-MHB-5252-MC	S	PN 315	38	M 52 x 2	37.0	22.0	65	65

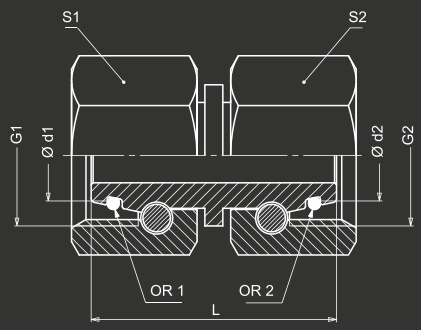
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Female / Metric Female (GZ)

Fitting, double nut



Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Connection 2:	Metric nut thread
Sealing form 2:	24° outer cone with O-ring
Design:	Fitting, double nuts
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Material:	Steel
Surface:	MotusCoat™



Identification	Working pressure	Ø d1 mm	Ø d2 mm	G1	G2	L mm	S1 mm	S2 mm	OR1	OR2
MLF-MLF-1212-MC	PN 315	6	6	M 12 x 1.5	M 12 x 1.5	32.0	14	14	4.0 x 1.5	4.0 x 1.5
MLF-MLF-1214-MC	PN 315	6	8	M 12 x 1.5	M 14 x 1.5	32.0	14	17	4.0 x 1.5	6.0 x 1.5
MLF-MLF-1216-MC	PN 315	6	10	M 12 x 1.5	M 16 x 1.5	33.0	14	19	4.0 x 1.5	7.5 x 1.5
MLF-MLF-1218-MC	PN 315	6	12	M 12 x 1.5	M 18 x 1.5	33.0	14	22	4.0 x 1.5	9.0 x 1.5
MLF-MLF-1414-MC	PN 315	8	8	M 14 x 1.5	M 14 x 1.5	32.0	17	17	6.0 x 1.5	6.0 x 1.5
MLF-MLF-1416-MC	PN 315	8	10	M 14 x 1.5	M 16 x 1.5	33.0	17	19	6.0 x 1.5	7.5 x 1.5
MLF-MLF-1418-MC	PN 315	8	12	M 14 x 1.5	M 18 x 1.5	33.0	17	22	6.0 x 1.5	9.0 x 1.5
MLF-MLF-1422-MC	PN 315	8	15	M 14 x 1.5	M 22 x 1.5	34.5	17	27	6.0 x 1.5	12.0 x 2.0
MLF-MLF-1426-MC	PN 315	8	18	M 14 x 1.5	M 26 x 1.5	36.0	17	32	6.0 x 1.5	15.0 x 2.0
MLF-MLF-1616-MC	PN 315	10	10	M 16 x 1.5	M 16 x 1.5	34.0	19	19	7.5 x 1.5	7.5 x 1.5
MLF-MLF-1618-MC	PN 315	10	12	M 16 x 1.5	M 18 x 1.5	33.0	19	22	7.5 x 1.5	9.0 x 1.5
MLF-MLF-1622-MC	PN 315	10	15	M 16 x 1.5	M 22 x 1.5	38.0	19	27	7.5 x 1.5	12.0 x 2.0
MLF-MLF-1626-MC	PN 315	10	18	M 16 x 1.5	M 26 x 1.5	36.0	19	32	7.5 x 1.5	15.0 x 2.0
MLF-MLF-1818-MC	PN 315	12	12	M 18 x 1.5	M 18 x 1.5	34.5	22	22	9.0 x 1.5	9.0 x 1.5
MLF-MLF-1822-MC	PN 315	12	15	M 18 x 1.5	M 22 x 1.5	38.0	22	27	9.0 x 1.5	12.0 x 2.0
MLF-MLF-1826-MC	PN 315	12	18	M 18 x 1.5	M 26 x 1.5	36.0	22	32	9.0 x 1.5	15.0 x 2.0
MLF-MLF-1830-MC	PN 160	12	22	M 18 x 1.5	M 30 x 2	40.0	22	36	9.0 x 1.5	20.0 x 2.0
MLF-MLF-2222-MC	PN 315	15	15	M 22 x 1.5	M 22 x 1.5	37.0	27	27	12.0 x 2.0	12.0 x 2.0
MLF-MLF-2226-MC	PN 315	15	18	M 22 x 1.5	M 26 x 1.5	36.0	27	32	12.0 x 2.0	15.0 x 2.0
MLF-MLF-2230-MC	PN 160	15	22	M 22 x 1.5	M 30 x 2	42.0	27	36	12.0 x 2.0	20.0 x 2.0
MLF-MLF-2236-MC	PN 160	15	28	M 22 x 1.5	M 36 x 2	46.0	27	41	12.0 x 2.0	26.0 x 2.0
MLF-MLF-2626-MC	PN 315	18	18	M 26 x 1.5	M 26 x 1.5	38.5	32	32	15.0 x 2.0	15.0 x 2.0
MLF-MLF-2630-MC	PN 160	18	22	M 26 x 1.5	M 30 x 2	42.0	32	36	15.0 x 2.0	20.0 x 2.0
MLF-MLF-2636-MC	PN 160	18	28	M 26 x 1.5	M 36 x 2	46.0	32	41	15.0 x 2.0	26.0 x 2.0
MLF-MLF-2645-MC	PN 160	18	35	M 26 x 1.5	M 45 x 2	45.0	32	50	15.0 x 2.0	32.0 x 2.5
MLF-MLF-3030-MC	PN 160	22	22	M 30 x 2	M 30 x 2	42.5	36	36	20.0 x 2.0	20.0 x 2.0

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

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Metric Female / Metric Female (GZ)

Fitting, double nut

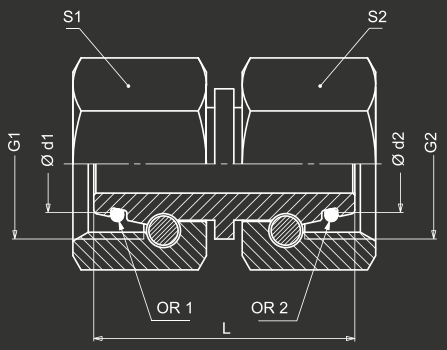
Identification	Working pressure	Ø d1 mm	Ø d2 mm	G1	G2	L mm	S1 mm	S2 mm	OR1	OR2
MLF-MLF-3036-MC	PN 160	22	28	M 30 x 2	M 36 x 2	46.0	36	41	20.0 x 2.0	26.0 x 2.0
MLF-MLF-3045-MC	PN 160	22	35	M 30 x 2	M 45 x 2	48.0	36	50	20.0 x 2.0	32.0 x 2.5
MLF-MLF-3052-MC	PN 160	22	42	M 30 x 2	M 52 x 2	47.5	36	60	20.0 x 2.0	38.0 x 2.5
MLF-MLF-3636-MC	PN 160	28	28	M 36 x 2	M 36 x 2	44.5	41	41	26.0 x 2.0	26.0 x 2.0
MLF-MLF-3642-MC	PN 160	28	35	M 36 x 2	M 45 x 2	48.0	41	50	26.0 x 2.0	32.0 x 2.5
MLF-MLF-3652-MC	PN 160	28	42	M 36 x 2	M 52 x 2	52.0	41	60	26.0 x 2.0	38.0 x 2.5
MLF-MLF-4242-MC	PN 160	35	35	M 45 x 2	M 45 x 2	51.0	50	50	32.0 x 2.5	32.0 x 2.5
MLF-MLF-4252-MC	PN 160	35	42	M 45 x 2	M 52 x 2	51.5	50	60	32.0 x 2.5	38.0 x 2.5
MLF-MLF-5252-MC	PN 160	42	42	M 52 x 2	M 52 x 2	52.0	60	60	38.0 x 2.5	38.0 x 2.5
MLF-MHF-1214-MC	PN 315	6	6	M 12 x 1.5	M 14 x 1.5	33.5	14	17	4.0 x 1.5	4.0 x 1.5
MLF-MHF-1216-MC	PN 315	6	8	M 12 x 1.5	M 16 x 1.5	33.0	14	19	4.0 x 1.5	6.0 x 1.5
MLF-MHF-1218-MC	PN 315	6	10	M 12 x 1.5	M 18 x 1.5	35.5	14	22	4.0 x 1.5	7.5 x 1.5
MLF-MHF-1220-MC	PN 315	6	12	M 12 x 1.5	M 20 x 1.5	38.0	14	24	4.0 x 1.5	9.0 x 1.5
MLF-MHF-1414-MC	PN 315	8	6	M 14 x 1.5	M 14 x 1.5	32.0	17	17	6.0 x 1.5	4.0 x 1.5
MLF-MHF-1416-MC	PN 315	8	8	M 14 x 1.5	M 16 x 1.5	33.0	17	19	6.0 x 1.5	6.0 x 1.5
MLF-MHF-1418-MC	PN 315	8	10	M 14 x 1.5	M 18 x 1.5	33.0	17	22	6.0 x 1.5	7.5 x 1.5
MLF-MHF-1420-MC	PN 315	8	12	M 14 x 1.5	M 20 x 1.5	36.0	17	24	6.0 x 1.5	9.0 x 1.5
MLF-MHF-1424-MC	PN 315	8	16	M 14 x 1.5	M 24 x 1.5	39.0	17	30	6.0 x 1.5	12.0 x 2.0
MLF-MHF-1614-MC	PN 315	10	6	M 16 x 1.5	M 14 x 1.5	33.0	19	17	7.5 x 1.5	4.0 x 1.5
MLF-MHF-1616-MC	PN 315	10	8	M 16 x 1.5	M 16 x 1.5	33.0	19	19	7.5 x 1.5	6.0 x 1.5
MLF-MHF-1618-MC	PN 315	10	10	M 16 x 1.5	M 18 x 1.5	33.0	19	22	7.5 x 1.5	7.5 x 1.5
MLF-MHF-1620-MC	PN 315	10	12	M 16 x 1.5	M 20 x 1.5	36.0	19	24	7.5 x 1.5	9.0 x 1.5
MLF-MHF-1622-MC	PN 315	10	14	M 16 x 1.5	M 22 x 1.5	39.0	19	27	7.5 x 1.5	10.0 x 2.0
MLF-MHF-1624-MC	PN 315	10	16	M 16 x 1.5	M 24 x 1.5	39.0	19	30	7.5 x 1.5	12.0 x 2.0
MLF-MHF-1818-MC	PN 315	12	10	M 18 x 1.5	M 18 x 1.5	33.0	22	22	9.0 x 1.5	7.5 x 1.5
MLF-MHF-1820-MC	PN 315	12	12	M 18 x 1.5	M 20 x 1.5	36.0	22	24	9.0 x 1.5	9.0 x 1.5
MLF-MHF-1822-MC	PN 315	12	14	M 18 x 1.5	M 22 x 1.5	39.0	22	27	9.0 x 1.5	10.0 x 2.0
MLF-MHF-1824-MC	PN 315	12	16	M 18 x 1.5	M 24 x 1.5	39.0	22	30	9.0 x 1.5	12.0 x 2.0
MLF-MHF-1830-MC	PN 315	12	20	M 18 x 1.5	M 30 x 2	36.0	22	36	9.0 x 1.5	16.3 x 2.4
MLF-MHF-2218-MC	PN 315	15	10	M 22 x 1.5	M 18 x 1.5	38.0	27	22	12.0 x 2.0	7.5 x 1.5
MLF-MHF-2220-MC	PN 315	15	12	M 22 x 1.5	M 20 x 1.5	38.0	27	24	12.0 x 2.0	9.0 x 1.5
MLF-MHF-2222-MC	PN 315	15	14	M 22 x 1.5	M 22 x 1.5	38.0	27	27	12.0 x 2.0	10.0 x 2.0
MLF-MHF-2224-MC	PN 315	15	16	M 22 x 1.5	M 24 x 1.5	39.0	27	30	12.0 x 2.0	12.0 x 2.0
MLF-MHF-2230-MC	PN 315	15	20	M 22 x 1.5	M 30 x 2	44.0	27	36	12.0 x 2.0	16.3 x 2.4
MLF-MHF-2236-MC	PN 315	15	25	M 22 x 1.5	M 36 x 2	47.5	27	46	12.0 x 2.0	20.3 x 2.4
MLF-MHF-2620-MC	PN 315	18	12	M 26 x 1.5	M 20 x 1.5	38.0	32	24	15.0 x 2.0	9.0 x 1.5
MLF-MHF-2622-MC	PN 315	18	14	M 26 x 1.5	M 22 x 1.5	41.0	32	27	15.0 x 2.0	10.0 x 2.0
MLF-MHF-2624-MC	PN 315	18	16	M 26 x 1.5	M 24 x 1.5	39.0	32	30	15.0 x 2.0	12.0 x 2.0
MLF-MHF-2630-MC	PN 315	18	20	M 26 x 1.5	M 30 x 2	44.0	32	36	15.0 x 2.0	16.3 x 2.4
MLF-MHF-2636-MC	PN 315	18	25	M 26 x 1.5	M 36 x 2	48.0	32	46	15.0 x 2.0	20.3 x 2.4
MLF-MHF-2642-MC	PN 315	18	30	M 26 x 1.5	M 42 x 2	50.0	32	50	15.0 x 2.0	25.3 x 2.4
MLF-MHF-3024-MC	PN 160	22	16	M 30 x 2	M 24 x 1.5	42.0	36	30	20.0 x 2.0	12.0 x 2.0
MLF-MHF-3030-MC	PN 160	22	20	M 30 x 2	M 30 x 2	44.0	36	36	20.0 x 2.0	16.3 x 2.4
MLF-MHF-3036-MC	PN 160	22	25	M 30 x 2	M 36 x 2	46.0	36	46	20.0 x 2.0	20.3 x 2.4
MLF-MHF-3042-MC	PN 160	22	30	M 30 x 2	M 42 x 2	52.0	36	50	20.0 x 2.0	25.3 x 2.4
MLF-MHF-3052-MC	PN 160	22	38	M 30 x 2	M 52 x 2	52.0	36	60	20.0 x 2.0	33.3 x 2.4

Metric Female / Metric Female (GZ)

Fitting, double nut



Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Connection 2:	Metric nut thread
Sealing form 2:	24° outer cone with O-ring
Design:	Fitting, double nuts
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Material:	Steel
Surface:	MotusCoat™



Identification	Working pressure	Ø d1 mm	Ø d2 mm	G1	G2	L mm	S1 mm	S2 mm	OR1	OR2
MLF-MHF-3624-MC	PN 160	28	16	M 36 x 2	M 24 x 1.5	46.0	41	30	26.0 x 2.0	12.0 x 2.0
MLF-MHF-3630-MC	PN 160	28	20	M 36 x 2	M 30 x 2	46.0	41	36	26.0 x 2.0	16.3 x 2.4
MLF-MHF-3636-MC	PN 160	28	25	M 36 x 2	M 36 x 2	46.0	41	46	26.0 x 2.0	20.3 x 2.4
MLF-MHF-3642-MC	PN 160	28	30	M 36 x 2	M 42 x 2	52.0	41	50	26.0 x 2.0	25.3 x 2.4
MLF-MHF-3652-MC	PN 160	28	38	M 36 x 2	M 52 x 2	51.0	41	60	26.0 x 2.0	33.3 x 2.4
MLF-MHF-4530-MC	PN 160	35	20	M 45 x 2	M 30 x 2	48.0	50	36	32.0 x 2.5	16.3 x 2.4
MLF-MHF-4536-MC	PN 160	35	25	M 45 x 2	M 36 x 2	48.0	50	46	32.0 x 2.5	20.3 x 2.4
MLF-MHF-4542-MC	PN 160	35	30	M 45 x 2	M 42 x 2	52.0	50	50	32.0 x 2.5	25.3 x 2.4
MLF-MHF-4552-MC	PN 160	35	38	M 45 x 2	M 52 x 2	52.0	50	60	32.0 x 2.5	33.3 x 2.4
MLF-MHF-5242-MC	PN 160	42	30	M 52 x 2	M 42 x 2	52.0	60	50	38.0 x 2.5	25.3 x 2.4
MLF-MHF-5252-MC	PN 160	42	38	M 52 x 2	M 52 x 2	52.0	60	60	38.0 x 2.5	33.3 x 2.4
MHF-MHF-1414-MC	PN 630	6	6	M 14 x 1.5	M 14 x 1.5	35.0	17	17	4.0 x 1.5	4.0 x 1.5
MHF-MHF-1416-MC	PN 630	6	8	M 14 x 1.5	M 16 x 1.5	33.0	17	19	4.0 x 1.5	6.0 x 1.5
MHF-MHF-1418-MC	PN 630	6	10	M 14 x 1.5	M 18 x 1.5	32.0	17	22	4.0 x 1.5	7.5 x 1.5
MHF-MHF-1420-MC	PN 630	6	12	M 14 x 1.5	M 20 x 1.5	37.5	17	24	4.0 x 1.5	9.0 x 1.5
MHF-MHF-1616-MC	PN 630	8	8	M 16 x 1.5	M 16 x 1.5	35.0	19	19	6.0 x 1.5	6.0 x 1.5
MHF-MHF-1618-MC	PN 630	8	10	M 16 x 1.5	M 18 x 1.5	33.0	19	22	6.0 x 1.5	7.5 x 1.5
MHF-MHF-1620-MC	PN 630	8	12	M 16 x 1.5	M 20 x 1.5	36.0	19	24	6.0 x 1.5	9.0 x 1.5
MHF-MHF-1818-MC	PN 630	10	10	M 18 x 1.5	M 18 x 1.5	39.0	22	22	7.5 x 1.5	7.5 x 1.5
MHF-MHF-1820-MC	PN 630	10	12	M 18 x 1.5	M 20 x 1.5	36.0	22	24	7.5 x 1.5	9.0 x 1.5
MHF-MHF-1822-MC	PN 630	10	14	M 18 x 1.5	M 22 x 1.5	39.0	22	27	7.5 x 1.5	10.0 x 2.0
MHF-MHF-1824-MC	PN 400	10	16	M 18 x 1.5	M 24 x 1.5	39.0	22	30	7.5 x 1.5	12.0 x 2.0
MHF-MHF-2020-MC	PN 630	12	12	M 20 x 1.5	M 20 x 1.5	40.0	24	24	9.0 x 1.5	9.0 x 1.5
MHF-MHF-2022-MC	PN 630	12	14	M 20 x 1.5	M 22 x 1.5	39.0	24	27	9.0 x 1.5	10.0 x 2.0
MHF-MHF-2024-MC	PN 400	12	16	M 20 x 1.5	M 24 x 1.5	39.0	24	30	9.0 x 1.5	12.0 x 2.0

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

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Metric Female / Metric Female (GZ)

Fitting, double nut

Identification	Working pressure	Ø d1 mm	Ø d2 mm	G1	G2	L mm	S1 mm	S2 mm	OR1	OR2
MHF-MHF-2030-MC	PN 400	12	20	M 20 x 1.5	M 30 x 2	39.0	24	36	9.0 x 1.5	16.3 x 2.4
MHF-MHF-2222-MC	PN 630	14	14	M 22 x 1.5	M 22 x 1.5	43.0	27	27	10.0 x 2.0	10.0 x 2.0
MHF-MHF-2224-MC	PN 400	14	16	M 22 x 1.5	M 24 x 1.5	39.0	27	30	10.0 x 2.0	12.0 x 2.0
MHF-MHF-2230-MC	PN 400	14	20	M 22 x 1.5	M 30 x 2	44.0	27	36	10.0 x 2.0	16.3 x 2.4
MHF-MHF-2424-MC	PN 400	16	16	M 24 x 1.5	M 24 x 1.5	44.0	30	30	12.0 x 2.0	12.0 x 2.0
MHF-MHF-2430-MC	PN 400	16	20	M 24 x 1.5	M 30 x 2	44.0	30	36	12.0 x 2.0	16.3 x 2.4
MHF-MHF-2436-MC	PN 400	16	25	M 24 x 1.5	M 36 x 2	46.0	30	46	12.0 x 2.0	20.3 x 2.4
MHF-MHF-2442-MC	PN 400	16	30	M 24 x 1.5	M 42 x 2	52.0	30	50	12.0 x 2.0	25.3 x 2.4
MHF-MHF-3030-MC	PN 400	20	20	M 30 x 2	M 30 x 2	53.5	36	36	16.3 x 2.4	16.3 x 2.4
MHF-MHF-3036-MC	PN 400	20	25	M 30 x 2	M 36 x 2	46.0	36	46	16.3 x 2.4	20.3 x 2.4
MHF-MHF-3042-MC	PN 400	20	30	M 30 x 2	M 42 x 2	52.0	36	50	16.3 x 2.4	25.3 x 2.4
MHF-MHF-3052-MC	PN 315	20	38	M 30 x 2	M 52 x 2	52.0	36	60	16.3 x 2.4	33.3 x 2.4
MHF-MHF-3636-MC	PN 400	25	25	M 36 x 2	M 36 x 2	57.5	46	46	20.3 x 2.4	20.3 x 2.4
MHF-MHF-3642-MC	PN 400	25	30	M 36 x 2	M 42 x 2	52.0	46	50	20.3 x 2.4	25.3 x 2.4
MHF-MHF-3652-MC	PN 315	25	38	M 36 x 2	M 52 x 2	52.0	46	60	20.3 x 2.4	33.3 x 2.4
MHF-MHF-4242-MC	PN 400	30	30	M 42 x 2	M 42 x 2	60.5	50	50	25.3 x 2.4	25.3 x 2.4
MHF-MHF-4252-MC	PN 315	30	38	M 42 x 2	M 52 x 2	52.0	50	60	25.3 x 2.4	33.3 x 2.4
MHF-MHF-5252-MC	PN 315	38	38	M 52 x 2	M 52 x 2	65.5	60	60	33.3 x 2.4	33.3 x 2.4

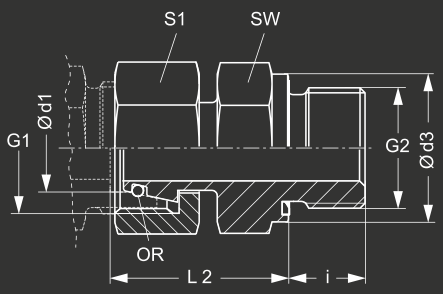
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Female / BSP Parallel Male (EGE - R - ED)

Screw-in fitting



Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Connection 2:	BSP cylindrical external threads
Sealing form 2:	Shape E
Design:	Screw-in fitting
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d1 mm	G1	G2	Ø d3 mm	i mm	L2 mm	SW mm	S1 mm	OR mm
MLF-EDB-1202-MC	L	PN 315	6	M 12 x 1.5	G 1/8"–28	13.9	8	24.5	14	14	4.0 x 1.5
MLF-EDB-1404-MC	L	PN 315	8	M 14 x 1.5	G 1/4"–19	18.9	12	29.5	19	17	6.0 x 1.5
MLF-EDB-1604-MC	L	PN 315	10	M 16 x 1.5	G 1/4"–19	18.9	12	27.5	19	19	7.5 x 1.5
MLF-EDB-1804-MC	L	PN 315	12	M 18 x 1.5	G 1/4"–19	18.9	12	30.0	19	22	9.0 x 1.5
MLF-EDB-1808-MC	L	PN 315	12	M 18 x 1.5	G 1/2"–14	26.9	14	34.0	27	22	9.0 x 1.5
MLF-EDB-1806-MC	L	PN 315	12	M 18 x 1.5	G 3/8"–19	21.9	12	34.0	22	22	9.0 x 1.5
MLF-EDB-2208-MC	L	PN 315	15	M 22 x 1.5	G 1/2"–14	26.9	14	32.0	27	27	12.0 x 2.0
MLF-EDB-2608-MC	L	PN 315	18	M 26 x 1.5	G 1/2"–14	26.9	14	31.5	27	32	15.0 x 2.0
MLF-EDB-3012-MC	L	PN 160	22	M 30 x 2	G 3/4"–14	31.9	16	32.5	32	36	20.0 x 2.0
MLF-EDB-3616-MC	L	PN 160	28	M 36 x 2	G 1"–11	39.9	18	35.0	41	41	26.0 x 2.0
MLF-EDB-4520-MC	L	PN 160	35	M 45 x 2	G 1.1/4"–11	49.9	20	42.5	50	50	32.0 x 2.5
MLF-EDB-5224-MC	L	PN 160	42	M 52 x 2	G 1.1/2"–11	54.9	22	46.5	55	60	38.0 x 2.5
MHF-EDB-1404-MC	S	PN 630	6	M 14 x 1.5	G 1/4"–19	18.9	12	27.0	19	17	4.0 x 1.5
MHF-EDB-1604-MC	S	PN 630	8	M 16 x 1.5	G 1/4"–19	18.9	12	29.5	19	19	6.0 x 1.5
MHF-EDB-1806-MC	S	PN 630	10	M 18 x 1.5	G 3/8"–19	21.9	12	32.0	22	22	7.5 x 1.5
MHF-EDB-2008-MC	S	PN 630	12	M 20 x 1.5	G 1/2"–14	26.9	14	35.0	27	24	9.0 x 1.5
MHF-EDB-2006-MC	S	PN 630	12	M 20 x 1.5	G 3/8"–19	21.9	12	34.0	22	24	9.0 x 1.5
MHF-EDB-2208-MC	S	PN 630	14	M 22 x 1.5	G 1/2"–14	26.9	14	36.5	27	27	10.0 x 2.0
MHF-EDB-2408-MC	S	PN 400	16	M 24 x 1.5	G 1/2"–14	26.9	14	37.0	27	30	12.0 x 2.0
MHF-EDB-3012-MC	S	PN 400	20	M 30 x 2	G 3/4"–14	31.9	16	43.0	32	36	16.3 x 2.4
MHF-EDB-3616-MC	S	PN 400	25	M 36 x 2	G 1"–11	39.9	18	48.0	41	46	20.3 x 2.4
MHF-EDB-4220-MC	S	PN 400	30	M 42 x 2	G 1.1/4"–11	49.9	20	51.0	50	50	25.3 x 2.4
MHF-EDB-5224-MC	S	PN 315	38	M 52 x 2	G 1.1/2"–11	54.9	22	60.0	55	60	33.3 x 2.4

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

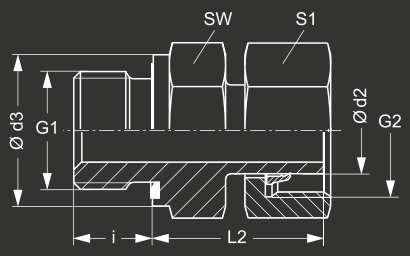
NZ 0800 668 874 | AU 1800 839 249 | US & CAN 437 245 6179 | sales@motushydraulics.com | motushydraulics.com

Metric Female / BSP Parallel Male (EVGE - R - ED)

Screw-in fitting



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Shape E
Connection 2:	Metric nut thread
Sealing form 2:	Pipe socket with cutting ring
Design:	Screw-in fitting
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Pipe socket with union nut and preassembled cutting ring
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G1	G2	Ø d3 mm	i mm	L2 mm	SW mm	S1 mm
EDB-MLF-0212-MC	L	PN 315	6	G 1/8"–28	M 12 x 1.5	13.9	8	24.5	14	14
EDB-MLF-0414-MC	L	PN 315	8	G 1/4"–19	M 14 x 1.5	18.9	12	27.0	19	17
EDB-MLF-0416-MC	L	PN 315	10	G 1/4"–19	M 16 x 1.5	18.9	12	27.5	19	19
EDB-MLF-0418-MC	L	PN 315	12	G 1/4"–19	M 18 x 1.5	18.9	12	28.5	19	22
EDB-MLF-0618-MC	L	PN 315	12	G 3/8"–19	M 18 x 1.5	21.9	12	30.0	22	22
EDB-MLF-0622-MC	L	PN 315	15	G 3/8"–19	M 22 x 1.5	21.9	12	30.0	22	27
EDB-MLF-0818-MC	L	PN 315	12	G 1/2"–14	M 18 x 1.5	26.9	14	30.5	27	22
EDB-MLF-0822-MC	L	PN 315	15	G 1/2"–14	M 22 x 1.5	26.9	14	30.5	27	27
EDB-MLF-0826-MC	L	PN 315	18	G 1/2"–14	M 26 x 1.5	26.9	14	31.5	27	32
EDB-MLF-1230-MC	L	PN 160	22	G 3/4"–14	M 30 x 2	31.9	16	32.5	32	36
EDB-MLF-1636-MC	L	PN 160	28	G 1"–11	M 36 x 2	39.9	18	35.0	41	41
EDB-MLF-2045-MC	L	PN 160	35	G 1.1/4"–11	M 45 x 2	49.9	20	42.5	50	50
EDB-MLF-2452-MC	L	PN 160	42	G 1.1/2"–11	M 52 x 2	54.9	22	47.0	55	60
EDB-MHF-0414-MC	S	PN 630	6	G 1/4"–19	M 14 x 1.5	18.9	12	27.0	19	17
EDB-MHF-0416-MC	S	PN 630	8	G 1/4"–19	M 16 x 1.5	18.9	12	27.0	19	19
EDB-MHF-0618-MC	S	PN 630	10	G 3/8"–19	M 18 x 1.5	21.9	12	32.0	22	22
EDB-MHF-0620-MC	S	PN 630	12	G 3/8"–19	M 20 x 1.5	21.9	12	32.0	22	24
EDB-MHF-0820-MC	S	PN 630	12	G 1/2"–14	M 20 x 1.5	26.9	14	35.0	27	24
EDB-MHF-0822-MC	S	PN 630	14	G 1/2"–14	M 22 x 1.5	26.9	14	36.5	27	27
EDB-MHF-0824-MC	S	PN 400	16	G 1/2"–14	M 24 x 1.5	26.9	14	37.0	27	30
EDB-MHF-1230-MC	S	PN 400	20	G 3/4"–14	M 30 x 2	31.9	16	43.0	32	36
EDB-MHF-1636-MC	S	PN 400	25	G 1"–11	M 36 x 2	39.9	18	48.0	41	46
EDB-MHF-2042-MC	S	PN 400	30	G 1.1/4"–11	M 42 x 2	49.9	20	51.0	50	50
EDB-MHF-2452-MC	S	PN 315	38	G 1.1/2"–11	M 52 x 2	54.9	22	60.0	55	60

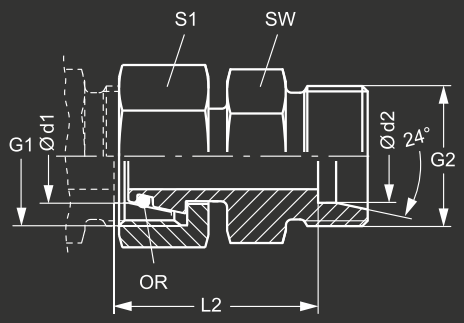
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Female / Metric Male (RED)

Reducing fitting



Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Reducing fitting
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d1 mm	Ø d2 mm	G1	G2	L2 mm	SW mm	S1 mm	OR mm
MLF-MLLM-1208-MC	L / LL	PN 100	6	4	M 12 x 1.5	M 8 x 1	24.5	9	14	4.0 x 1.5
MLF-MLM-1212-MC	L	PN 315	6	6	M 12 x 1.5	M 12 x 1.5	27.5	14	14	4.0 x 1.5
MLF-MLM-1214-MC	L	PN 315	6	8	M 12 x 1.5	M 14 x 1.5	24.5	14	14	4.0 x 1.5
MLF-MLM-1216-MC	L	PN 315	6	10	M 12 x 1.5	M 16 x 1.5	25.5	17	14	4.0 x 1.5
MLF-MLM-1218-MC	L	PN 315	6	12	M 12 x 1.5	M 18 x 1.5	25.5	19	14	4.0 x 1.5
MLF-MLM-1222-MC	L	PN 315	6	15	M 12 x 1.5	M 22 x 1.5	27.5	24	14	4.0 x 1.5
MLF-MLM-1412-MC	L	PN 315	8	6	M 14 x 1.5	M 12 x 1.5	24.5	12	17	6.0 x 1.5
MLF-MLM-1414-MC	L	PN 315	8	8	M 14 x 1.5	M 14 x 1.5	37.0	14	17	6.0 x 1.5
MLF-MLM-1416-MC	L	PN 315	8	10	M 14 x 1.5	M 16 x 1.5	26.0	17	17	6.0 x 1.5
MLF-MLM-1418-MC	L	PN 315	8	12	M 14 x 1.5	M 18 x 1.5	27.0	19	17	6.0 x 1.5
MLF-MLM-1422-MC	L	PN 315	8	15	M 14 x 1.5	M 22 x 1.5	28.0	24	17	4.0 x 1.5
MLF-MLM-1612-MC	L	PN 315	10	6	M 16 x 1.5	M 12 x 1.5	25.0	14	19	7.5 x 1.5
MLF-MLM-1614-MC	L	PN 315	10	8	M 16 x 1.5	M 14 x 1.5	25.0	14	19	7.5 x 1.5
MLF-MLM-1616-MC	L	PN 315	10	10	M 16 x 1.5	M 16 x 1.5	37.0	17	19	7.5 x 1.5
MLF-MLM-1618-MC	L	PN 315	10	12	M 16 x 1.5	M 18 x 1.5	28.0	19	19	7.5 x 1.5
MLF-MLM-1622-MC	L	PN 315	10	15	M 16 x 1.5	M 22 x 1.5	29.0	24	19	7.5 x 1.5
MLF-MLM-1626-MC	L	PN 315	10	18	M 16 x 1.5	M 26 x 1.5	33.0	27	19	7.5 x 1.5
MLF-MLM-1812-MC	L	PN 315	12	6	M 18 x 1.5	M 12 x 1.5	26.5	17	22	9.0 x 1.5
MLF-MLM-1814-MC	L	PN 315	12	8	M 18 x 1.5	M 14 x 1.5	26.5	17	22	9.0 x 1.5
MLF-MLM-1816-MC	L	PN 315	12	10	M 18 x 1.5	M 16 x 1.5	27.5	17	22	9.0 x 1.5
MLF-MLM-1818-MC	L	PN 315	12	12	M 18 x 1.5	M 18 x 1.5	37.0	19	22	9.0 x 1.5
MLF-MLM-1822-MC	L	PN 315	12	15	M 18 x 1.5	M 22 x 1.5	29.0	24	22	9.0 x 1.5
MLF-MLM-1826-MC	L	PN 315	12	18	M 18 x 1.5	M 26 x 1.5	29.5	27	22	9.0 x 1.5
MLF-MLM-2212-MC	L	PN 315	15	6	M 22 x 1.5	M 12 x 1.5	28.5	19	27	12.0 x 2.0
MLF-MLM-2214-MC	L	PN 315	15	8	M 22 x 1.5	M 14 x 1.5	28.5	19	27	12.0 x 2.0

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

Metric Female / Metric Male (RED)

Reducing fitting

Identification	Series	Working pressure bar	Ø d1 mm	Ø d2 mm	G1	G2	L2 mm	SW mm	S1 mm	OR mm
MLF-MLM-2216-MC	L	PN 315	15	10	M 22 x 1.5	M 16 x 1.5	29.5	19	27	12.0 x 2.0
MLF-MLM-2218-MC	L	PN 315	15	12	M 22 x 1.5	M 18 x 1.5	29.5	19	27	12.0 x 2.0
MLF-MLM-2222-MC	L	PN 315	15	15	M 22 x 1.5	M 22 x 1.5	37.0	24	27	12.0 x 2.0
MLF-MLM-2226-MC	L	PN 315	15	18	M 22 x 1.5	M 26 x 1.5	31.5	27	27	12.0 x 2.0
MLF-MLM-2230-MC	L	PN 160	15	22	M 22 x 1.5	M 30 x 2	33.5	32	27	12.0 x 2.0
MLF-MLM-2612-MC	L	PN 315	18	6	M 26 x 1.5	M 12 x 1.5	29.5	24	32	15.0 x 2.0
MLF-MLM-2614-MC	L	PN 315	18	8	M 26 x 1.5	M 14 x 1.5	29.5	24	32	15.0 x 2.0
MLF-MLM-2616-MC	L	PN 315	18	10	M 26 x 1.5	M 16 x 1.5	30.5	24	32	15.0 x 2.0
MLF-MLM-2618-MC	L	PN 315	18	12	M 26 x 1.5	M 18 x 1.5	30.5	24	32	15.0 x 2.0
MLF-MLM-2622-MC	L	PN 315	18	15	M 26 x 1.5	M 22 x 1.5	31.5	24	32	15.0 x 2.0
MLF-MLM-2626-MC	L	PN 315	18	18	M 26 x 1.5	M 26 x 1.5	36.0	27	32	15.0 x 2.0
MLF-MLM-2630-MC	L	PN 160	18	22	M 26 x 1.5	M 30 x 2	33.0	32	32	15.0 x 2.0
MLF-MLM-2636-MC	L	PN 160	18	28	M 26 x 1.5	M 36 x 2	34.0	41	32	15.0 x 2.0
MLF-MLM-3012-MC	L	PN 160	22	6	M 30 x 2	M 12 x 1.5	32.0	27	36	20.0 x 2.0
MLF-MLM-3014-MC	L	PN 160	22	8	M 30 x 2	M 14 x 1.5	32.0	27	36	20.0 x 2.0
MLF-MLM-3016-MC	L	PN 160	22	10	M 30 x 2	M 16 x 1.5	33.0	27	36	20.0 x 2.0
MLF-MLM-3018-MC	L	PN 160	22	12	M 30 x 2	M 18 x 1.5	33.0	27	36	20.0 x 2.0
MLF-MLM-3022-MC	L	PN 160	22	15	M 30 x 2	M 22 x 1.5	34.0	27	36	20.0 x 2.0
MLF-MLM-3026-MC	L	PN 160	22	18	M 30 x 2	M 26 x 1.5	33.5	27	36	20.0 x 2.0
MLF-MLM-3030-MC	L	PN 160	22	22	M 30 x 2	M 30 x 2	42.5	32	36	20.0 x 2.0
MLF-MLM-3036-MC	L	PN 160	22	28	M 30 x 2	M 36 x 2	38.0	41	36	20.0 x 2.0
MLF-MLM-3045-MC	L	PN 160	22	35	M 30 x 2	M 45 x 2	39.0	46	36	20.0 x 2.0
MLF-MLM-3612-MC	L	PN 160	28	6	M 36 x 2	M 12 x 1.5	34.0	32	41	26.0 x 2.0
MLF-MLM-3614-MC	L	PN 160	28	8	M 36 x 2	M 14 x 1.5	34.0	32	41	26.0 x 2.0
MLF-MLM-3616-MC	L	PN 160	28	10	M 36 x 2	M 16 x 1.5	35.0	32	41	26.0 x 2.0
MLF-MLM-3618-MC	L	PN 160	28	12	M 36 x 2	M 18 x 1.5	35.0	32	41	26.0 x 2.0
MLF-MLM-3622-MC	L	PN 160	28	15	M 36 x 2	M 22 x 1.5	36.0	32	41	26.0 x 2.0
MLF-MLM-3626-MC	L	PN 160	28	18	M 36 x 2	M 26 x 1.5	35.5	32	41	26.0 x 2.0
MLF-MLM-3630-MC	L	PN 160	28	22	M 36 x 2	M 30 x 2	37.5	32	41	26.0 x 2.0
MLF-MLM-3636-MC	L	PN 160	28	28	M 36 x 2	M 36 x 2	41.5	41	41	26.0 x 2.0
MLF-MLM-3645-MC	L	PN 160	28	35	M 36 x 2	M 45 x 2	39.5	46	41	26.0 x 2.0
MLF-MLM-3652-MC	L	PN 160	28	42	M 36 x 2	M 52 x 2	41.0	55	41	26.0 x 2.0
MLF-MLM-4512-MC	L	PN 160	35	6	M 45 x 2	M 12 x 1.5	37.0	41	50	32.0 x 2.5
MLF-MLM-4514-MC	L	PN 160	35	8	M 45 x 2	M 14 x 1.5	37.0	41	50	32.0 x 2.5
MLF-MLM-4516-MC	L	PN 160	35	10	M 45 x 2	M 16 x 1.5	38.0	41	50	32.0 x 2.5
MLF-MLM-4518-MC	L	PN 160	35	12	M 45 x 2	M 18 x 1.5	38.0	41	50	32.0 x 2.5
MLF-MLM-4522-MC	L	PN 160	35	15	M 45 x 2	M 22 x 1.5	39.5	41	50	32.0 x 2.5
MLF-MLM-4526-MC	L	PN 160	35	18	M 45 x 2	M 26 x 1.5	39.5	41	50	32.0 x 2.5
MLF-MLM-4530-MC	L	PN 160	35	22	M 45 x 2	M 30 x 2	41.5	41	50	32.0 x 2.5
MLF-MLM-4536-MC	L	PN 160	35	28	M 45 x 2	M 36 x 2	41.5	41	50	32.0 x 2.5
MLF-MLM-4545-MC	L	PN 160	35	35	M 45 x 2	M 45 x 2	50.0	46	50	32.0 x 2.5
MLF-MLM-4552-MC	L	PN 160	35	42	M 45 x 2	M 52 x 2	42.0	55	50	32.0 x 2.5
MLF-MLM-5212-MC	L	PN 160	42	6	M 52 x 2	M 12 x 1.5	40.5	50	60	38.0 x 2.5
MLF-MLM-5214-MC	L	PN 160	42	8	M 52 x 2	M 14 x 1.5	40.5	50	60	38.0 x 2.5
MLF-MLM-5216-MC	L	PN 160	42	10	M 52 x 2	M 16 x 1.5	41.5	50	60	38.0 x 2.5
MLF-MLM-5218-MC	L	PN 160	42	12	M 52 x 2	M 18 x 1.5	41.5	50	60	38.0 x 2.5
MLF-MLM-5222-MC	L	PN 160	42	15	M 52 x 2	M 22 x 1.5	42.5	50	60	38.0 x 2.5

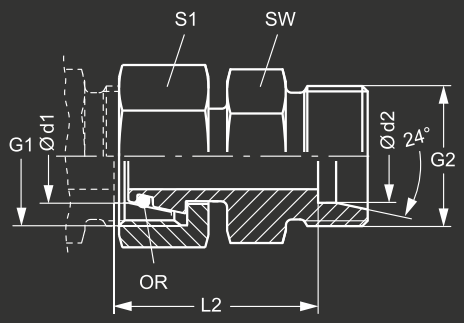
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

Metric Female / Metric Male (RED)

Reducing fitting



Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Reducing fitting
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d1 mm	Ø d2 mm	G1	G2	L2 mm	SW mm	S1 mm	OR mm
MLF-MLM-5226-MC	L	PN 160	42	18	M 52 x 2	M 26 x 1.5	42.0	50	60	38.0 x 2.5
MLF-MLM-5230-MC	L	PN 160	42	22	M 52 x 2	M 30 x 2	44.0	50	60	38.0 x 2.5
MLF-MLM-5236-MC	L	PN 160	42	28	M 52 x 2	M 36 x 2	44.0	50	60	38.0 x 2.5
MLF-MLM-5242-MC	L	PN 160	42	35	M 52 x 2	M 45 x 2	43.0	50	60	38.0 x 2.5
MLF-MLM-5252-MC	L	PN 160	42	42	M 52 x 2	M 52 x 2	42.0	55	60	38.0 x 2.5
MLF-MHM-1214-MC	L / S	PN 315	6	6	M 12 x 1.5	M 14 x 1.5	29.5	17	14	4.0 x 1.5
MLF-MHM-1216-MC	L / S	PN 315	6	8	M 12 x 1.5	M 16 x 1.5	29.5	17	14	4.0 x 1.5
MLF-MHM-1218-MC	L / S	PN 315	6	10	M 12 x 1.5	M 18 x 1.5	29.0	19	14	4.0 x 1.5
MLF-MHM-1220-MC	L / S	PN 315	6	12	M 12 x 1.5	M 20 x 1.5	31.0	22	14	4.0 x 1.5
MLF-MHM-1416-MC	L / S	PN 315	8	8	M 14 x 1.5	M 16 x 1.5	30.0	17	17	6.0 x 1.5
MLF-MHM-1418-MC	L / S	PN 315	8	10	M 14 x 1.5	M 18 x 1.5	29.5	19	17	6.0 x 1.5
MLF-MHM-1420-MC	L / S	PN 315	8	12	M 14 x 1.5	M 20 x 1.5	31.5	22	17	6.0 x 1.5
MLF-MHM-1618-MC	L / S	PN 315	10	10	M 16 x 1.5	M 18 x 1.5	32.5	19	19	7.5 x 1.5
MLF-MHM-1620-MC	L / S	PN 315	10	12	M 16 x 1.5	M 20 x 1.5	32.5	22	19	7.5 x 1.5
MLF-MHM-1622-MC	L / S	PN 315	10	14	M 16 x 1.5	M 22 x 1.5	34.0	24	19	7.5 x 1.5
MLF-MHM-1624-MC	L / S	PN 315	10	16	M 16 x 1.5	M 24 x 1.5	33.5	27	19	7.5 x 1.5
MLF-MHM-1816-MC	L / S	PN 315	12	8	M 18 x 1.5	M 16 x 1.5	31.0	19	22	9.0 x 1.5
MLF-MHM-1818-MC	L / S	PN 315	12	10	M 18 x 1.5	M 18 x 1.5	30.5	19	22	9.0 x 1.5
MLF-MHM-1820-MC	L / S	PN 315	12	12	M 18 x 1.5	M 20 x 1.5	33.0	22	22	9.0 x 1.5
MLF-MHM-1822-MC	L / S	PN 315	12	14	M 18 x 1.5	M 22 x 1.5	35.5	24	22	9.0 x 1.5
MLF-MHM-1824-MC	L / S	PN 315	12	16	M 18 x 1.5	M 24 x 1.5	33.5	27	22	9.0 x 1.5
MLF-MHM-1830-MC	L / S	PN 315	12	20	M 18 x 1.5	M 30 x 2	29.5	32	22	9.0 x 1.5
MLF-MHM-2224-MC	L / S	PN 315	15	16	M 22 x 1.5	M 24 x 1.5	35.5	27	27	12.0 x 2.0
MLF-MHM-2230-MC	L / S	PN 315	15	20	M 22 x 1.5	M 30 x 2	32.5	32	27	12.0 x 2.0
MLF-MHM-2624-MC	L / S	PN 315	18	16	M 26 x 1.5	M 24 x 1.5	31.5	27	32	16.0 x 2.0

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

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Metric Female / Metric Male (RED)

Reducing fitting

Identification	Series	Working pressure bar	Ø d1 mm	Ø d2 mm	G1	G2	L2 mm	SW mm	S1 mm	OR mm
MLF-MHM-2630-MC	L / S	PN 315	18	20	M 26 x 1.5	M 30 x 2	37.0	32	32	16.0 x 2.0
MLF-MHM-2636-MC	L / S	PN 315	18	25	M 26 x 1.5	M 36 x 2	33.5	41	32	16.0 x 2.0
MLF-MHM-3024-MC	L / S	PN 160	22	16	M 30 x 2	M 24 x 1.5	34.0	27	36	20.0 x 2.0
MLF-MHM-3030-MC	L / S	PN 160	22	20	M 30 x 2	M 30 x 2	41.0	32	36	20.0 x 2.0
MLF-MHM-3036-MC	L / S	PN 160	22	25	M 30 x 2	M 36 x 2	43.5	41	36	20.0 x 2.0
MLF-MHM-3042-MC	L / S	PN 160	22	30	M 30 x 2	M 42 x 2	43.5	46	36	20.0 x 2.0
MLF-MHM-3624-MC	L / S	PN 160	28	16	M 36 x 2	M 24 x 2	36.5	32	41	26.0 x 2.0
MLF-MHM-3636-MC	L / S	PN 160	28	25	M 36 x 2	M 36 x 2	44.0	41	41	26.0 x 2.0
MLF-MHM-3642-MC	L / S	PN 160	28	30	M 36 x 2	M 42 x 2	43.5	46	41	26.0 x 2.0
MLF-MHM-3652-MC	L / S	PN 160	28	38	M 36 x 2	M 52 x 2	47.0	55	41	26.0 x 2.0
MLF-MHM-4536-MC	L / S	PN 160	35	25	M 45 x 2	M 36 x 2	40.0	41	50	32.0 x 2.5
MLF-MHM-4542-MC	L / S	PN 160	35	30	M 45 x 2	M 42 x 2	40.5	46	50	32.0 x 2.5
MLF-MHM-4552-MC	L / S	PN 160	35	38	M 45 x 2	M 52 x 2	50.0	55	50	32.0 x 2.5
MLF-MHM-5242-MC	L / S	PN 160	42	30	M 52 x 2	M 42 x 2	42.5	50	60	38.0 x 2.5
MLF-MHM-5252-MC	L / S	PN 160	42	38	M 52 x 2	M 52 x 2	45.5	55	60	38.0 x 2.5
MHF-MHM-1414-MC	S	PN 630	6	6	M 14 x 1.5	M 14 x 1.5	36.0	14	17	4.0 x 1.5
MHF-MHM-1416-MC	S	PN 630	6	8	M 14 x 1.5	M 16 x 1.5	30.0	17	17	4.0 x 1.5
MHF-MHM-1418-MC	S	PN 630	6	10	M 14 x 1.5	M 18 x 1.5	29.5	19	17	4.0 x 1.5
MHF-MHM-1614-MC	S	PN 630	8	6	M 16 x 1.5	M 14 x 1.5	28.0	14	19	6.0 x 1.5
MHF-MHM-1616-MC	S	PN 630	8	8	M 16 x 1.5	M 16 x 1.5	37.5	17	19	6.0 x 1.5
MHF-MHM-1618-MC	S	PN 630	8	10	M 16 x 1.5	M 18 x 1.5	30.0	19	19	6.0 x 1.5
MHF-MHM-1620-MC	S	PN 630	8	12	M 16 x 1.5	M 20 x 1.5	32.0	22	19	6.0 x 1.5
MHF-MHM-1624-MC	S	PN 400	8	16	M 16 x 1.5	M 24 x 1.5	31.5	27	19	6.0 x 1.5
MHF-MHM-1814-MC	S	PN 630	10	6	M 18 x 1.5	M 14 x 1.5	29.5	17	22	7.5 x 1.5
MHF-MHM-1816-MC	S	PN 630	10	8	M 18 x 1.5	M 16 x 1.5	29.5	17	22	7.5 x 1.5
MHF-MHM-1818-MC	S	PN 630	10	10	M 18 x 1.5	M 18 x 1.5	36.5	19	22	7.5 x 1.5
MHF-MHM-1820-MC	S	PN 630	10	12	M 18 x 1.5	M 20 x 1.5	32.5	22	22	7.5 x 1.5
MHF-MHM-1822-MC	S	PN 630	10	14	M 18 x 1.5	M 22 x 1.5	34.0	24	22	7.5 x 1.5
MHF-MHM-1824-MC	S	PN 400	10	16	M 18 x 1.5	M 24 x 1.5	33.5	27	22	7.5 x 1.5
MHF-MHM-2014-MC	S	PN 630	12	6	M 20 x 1.5	M 14 x 1.5	30.0	17	24	9.0 x 1.5
MHF-MHM-2016-MC	S	PN 630	12	8	M 20 x 1.5	M 16 x 1.5	30.0	17	24	9.0 x 1.5
MHF-MHM-2018-MC	S	PN 630	12	10	M 20 x 1.5	M 18 x 1.5	30.5	19	24	9.0 x 1.5
MHF-MHM-2020-MC	S	PN 630	12	12	M 20 x 1.5	M 20 x 1.5	32.5	22	24	9.0 x 1.5
MHF-MHM-2022-MC	S	PN 630	12	14	M 20 x 1.5	M 22 x 1.5	34.0	24	24	9.0 x 1.5
MHF-MHM-2024-MC	S	PN 400	12	16	M 20 x 1.5	M 24 x 1.5	33.5	27	24	9.0 x 1.5
MHF-MHM-2030-MC	S	PN 400	12	20	M 20 x 1.5	M 30 x 2	37.0	32	24	9.0 x 1.5
MHF-MHM-2214-MC	S	PN 630	14	6	M 22 x 1.5	M 14 x 1.5	33.0	19	27	10.0 x 2.0
MHF-MHM-2216-MC	S	PN 630	14	8	M 22 x 1.5	M 16 x 1.5	33.0	19	27	10.0 x 2.0
MHF-MHM-2218-MC	S	PN 630	14	10	M 22 x 1.5	M 18 x 1.5	32.5	19	27	10.0 x 2.0
MHF-MHM-2220-MC	S	PN 630	14	12	M 22 x 1.5	M 20 x 1.5	32.5	22	27	10.0 x 2.0
MHF-MHM-2222-MC	S	PN 630	14	14	M 22 x 1.5	M 22 x 1.5	40.0	24	27	10.0 x 2.0
MHF-MHM-2224-MC	S	PN 400	14	16	M 22 x 1.5	M 24 x 1.5	36.0	27	27	10.0 x 2.0
MHF-MHM-2230-MC	S	PN 400	14	20	M 22 x 1.5	M 30 x 2	38.0	32	27	10.0 x 2.0
MHF-MHM-2414-MC	S	PN 400	16	6	M 24 x 1.5	M 14 x 1.5	34.0	22	30	12.0 x 2.0
MHF-MHM-2416-MC	S	PN 400	16	8	M 24 x 1.5	M 16 x 1.5	34.0	22	30	12.0 x 2.0
MHF-MHM-2418-MC	S	PN 400	16	10	M 24 x 1.5	M 18 x 1.5	33.5	22	30	12.0 x 2.0
MHF-MHM-2420-MC	S	PN 400	16	12	M 24 x 1.5	M 20 x 1.5	33.5	22	30	12.0 x 2.0

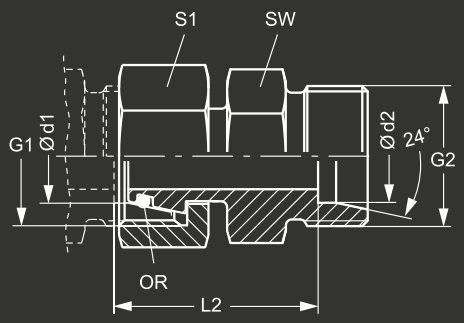
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

Metric Female / Metric Male (RED)

Reducing fitting



Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Reducing fitting
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d1 mm	Ø d2 mm	G1	G2	L2 mm	SW mm	S1 mm	OR mm
MHF-MHM-2422-MC	S	PN 400	16	14	M 24 x 1.5	M 22 x 1.5	35.5	24	30	12.0 x 2.0
MHF-MHM-2424-MC	S	PN 400	16	16	M 24 x 1.5	M 24 x 1.5	40.0	27	30	12.0 x 2.0
MHF-MHM-2430-MC	S	PN 400	16	20	M 24 x 1.5	M 30 x 2	39.0	32	30	12.0 x 2.0
MHF-MHM-2436-MC	S	PN 400	16	25	M 24 x 1.5	M 36 x 2	41.5	41	30	12.0 x 2.0
MHF-MHM-3014-MC	S	PN 400	20	6	M 30 x 2	M 14 x 1.5	39.0	27	36	16.3 x 2.4
MHF-MHM-3016-MC	S	PN 400	20	8	M 30 x 2	M 16 x 1.5	39.0	27	36	16.3 x 2.4
MHF-MHM-3018-MC	S	PN 400	20	10	M 30 x 2	M 18 x 1.5	38.5	27	36	16.3 x 2.4
MHF-MHM-3020-MC	S	PN 400	20	12	M 30 x 2	M 20 x 1.5	38.5	27	36	16.3 x 2.4
MHF-MHM-3022-MC	S	PN 400	20	14	M 30 x 2	M 22 x 1.5	40.0	27	36	16.3 x 2.4
MHF-MHM-3024-MC	S	PN 400	20	16	M 30 x 2	M 24 x 1.5	39.5	27	36	16.3 x 2.4
MHF-MHM-3030-MC	S	PN 400	20	20	M 30 x 2	M 30 x 2	46.0	32	36	16.3 x 2.4
MHF-MHM-3036-MC	S	PN 400	20	25	M 30 x 2	M 36 x 2	44.5	41	36	16.3 x 2.4
MHF-MHM-3042-MC	S	PN 400	20	30	M 30 x 2	M 42 x 2	45.0	46	36	16.3 x 2.4
MHF-MHM-3052-MC	S	PN 315	20	38	M 30 x 2	M 52 x 2	41.5	55	36	16.3 x 2.4
MHF-MHM-3614-MC	S	PN 400	25	6	M 36 x 2	M 14 x 1.5	41.5	32	46	20.3 x 2.4
MHF-MHM-3616-MC	S	PN 400	25	8	M 36 x 2	M 16 x 1.5	41.5	32	46	20.3 x 2.4
MHF-MHM-3618-MC	S	PN 400	25	10	M 36 x 2	M 18 x 1.5	41.0	32	46	20.3 x 2.4
MHF-MHM-3620-MC	S	PN 400	25	12	M 36 x 2	M 20 x 1.5	41.0	32	46	20.3 x 2.4
MHF-MHM-5220-MC	S	PN 315	38	12	M 52 x 2	M 20 x 1.5	50.0	50	60	33.3 x 2.4
MHF-MHM-5222-MC	S	PN 315	38	14	M 52 x 2	M 22 x 1.5	48.5	50	60	33.3 x 2.4
MHF-MHM-5224-MC	S	PN 315	38	16	M 52 x 2	M 24 x 1.5	51.0	50	60	33.3 x 2.4
MHF-MHM-5230-MC	S	PN 315	38	20	M 52 x 2	M 30 x 2	51.0	50	60	33.3 x 2.4
MHF-MHM-5236-MC	S	PN 315	38	25	M 52 x 2	M 36 x 2	51.5	50	60	33.3 x 2.4
MHF-MHM-5242-MC	S	PN 315	38	30	M 52 x 2	M 42 x 2	52.0	50	60	33.3 x 2.4
MHF-MHM-5252-MC	S	PN 315	38	38	M 52 x 2	M 52 x 2	57.0	55	60	33.3 x 2.4

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

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Metric Female / Metric Male (RED)

Reducing fitting

Identification	Series	Working pressure bar	Ø d1 mm	Ø d2 mm	G1	G2	L2 mm	SW mm	S1 mm	OR mm
MHF-MLM-1412-MC	S / L	PN 315	6	6	M 14 x 1.5	M 12 x 1.5	24.5	12	17	4.0 x 1.5
MHF-MLM-1414-MC	S / L	PN 315	6	8	M 14 x 1.5	M 14 x 1.5	23.5	14	17	4.0 x 1.5
MHF-MLM-1612-MC	S / L	PN 315	8	6	M 16 x 1.5	M 12 x 1.5	24.0	12	19	6.0 x 1.5
MHF-MLM-1614-MC	S / L	PN 315	8	8	M 16 x 1.5	M 14 x 1.5	24.5	14	19	6.0 x 1.5
MHF-MLM-1616-MC	S / L	PN 315	8	10	M 16 x 1.5	M 16 x 1.5	36.0	17	19	6.0 x 1.5
MHF-MLM-1618-MC	S / L	PN 315	8	12	M 16 x 1.5	M 18 x 1.5	27.5	19	19	6.0 x 1.5
MHF-MLM-1814-MC	S / L	PN 315	10	8	M 18 x 1.5	M 14 x 1.5	26.0	17	22	7.5 x 1.5
MHF-MLM-1816-MC	S / L	PN 315	10	10	M 18 x 1.5	M 16 x 1.5	27.0	17	22	7.5 x 1.5
MHF-MLM-1818-MC	S / L	PN 315	10	12	M 18 x 1.5	M 18 x 1.5	27.5	19	22	7.5 x 1.5
MHF-MLM-1822-MC	S / L	PN 315	10	15	M 18 x 1.5	M 22 x 1.5	29.0	24	22	7.5 x 1.5
MHF-MLM-2014-MC	S / L	PN 315	12	8	M 20 x 1.5	M 14 x 1.5	27.0	17	24	9.0 x 1.5
MHF-MLM-2016-MC	S / L	PN 315	12	10	M 20 x 1.5	M 16 x 1.5	29.5	17	24	9.0 x 1.5
MHF-MLM-2018-MC	S / L	PN 315	12	12	M 20 x 1.5	M 18 x 1.5	29.5	19	24	9.0 x 1.5
MHF-MLM-2022-MC	S / L	PN 315	12	15	M 20 x 1.5	M 22 x 1.5	30.5	24	24	9.0 x 1.5
MHF-MLM-2026-MC	S / L	PN 315	12	18	M 20 x 1.5	M 26 x 1.5	34.0	27	24	9.0 x 1.5
MHF-MLM-2218-MC	S / L	PN 315	14	12	M 22 x 1.5	M 18 x 1.5	30.5	19	27	10.0 x 2.0
MHF-MLM-2222-MC	S / L	PN 315	14	15	M 22 x 1.5	M 22 x 1.5	42.5	24	27	10.0 x 2.0
MHF-MLM-2226-MC	S / L	PN 315	14	18	M 22 x 1.5	M 26 x 1.5	35.0	27	27	10.0 x 2.0
MHF-MLM-2422-MC	S / L	PN 315	16	15	M 24 x 1.5	M 22 x 1.5	32.5	24	30	12.0 x 2.0
MHF-MLM-2426-MC	S / L	PN 315	16	18	M 24 x 1.5	M 26 x 1.5	33.0	27	30	12.0 x 2.0
MHF-MLM-2430-MC	S / L	PN 160	16	22	M 24 x 1.5	M 30 x 2	35.0	32	30	12.0 x 2.0
MHF-MLM-3022-MC	S / L	PN 315	20	15	M 30 x 2	M 22 x 1.5	38.0	27	36	16.3 x 2.4
MHF-MLM-3026-MC	S / L	PN 315	20	18	M 30 x 2	M 26 x 1.5	35.5	27	36	16.3 x 2.4
MHF-MLM-3030-MC	S / L	PN 160	20	22	M 30 x 2	M 30 x 2	38.0	32	36	16.3 x 2.4
MHF-MLM-3036-MC	S / L	PN 160	20	28	M 30 x 2	M 36 x 2	39.0	41	36	16.3 x 2.4
MHF-MLM-3622-MC	S / L	PN 315	25	15	M 36 x 2	M 22 x 1.5	40.5	32	46	20.3 x 2.4
MHF-MLM-3626-MC	S / L	PN 315	25	18	M 36 x 2	M 26 x 1.5	38.0	32	46	20.3 x 2.4
MHF-MLM-3630-MC	S / L	PN 160	25	22	M 36 x 2	M 30 x 2	42.0	32	46	20.3 x 2.4
MHF-MLM-3636-MC	S / L	PN 160	25	28	M 36 x 2	M 36 x 2	42.0	41	46	20.3 x 2.4
MHF-MLM-3645-MC	S / L	PN 160	25	35	M 36 x 2	M 45 x 2	42.0	46	46	20.3 x 2.4
MHF-MLM-4230-MC	S / L	PN 160	30	22	M 42 x 2	M 30 x 2	45.0	41	50	25.3 x 2.4
MHF-MLM-4236-MC	S / L	PN 160	30	28	M 42 x 2	M 36 x 2	45.5	41	50	25.3 x 2.4
MHF-MLM-4245-MC	S / L	PN 160	30	35	M 42 x 2	M 45 x 2	45.5	46	50	25.3 x 2.4
MHF-MLM-4252-MC	S / L	PN 160	30	42	M 42 x 2	M 52 x 2	47.0	55	50	25.3 x 2.4
MHF-MLM-5236-MC	S / L	PN 160	38	28	M 52 x 2	M 36 x 2	50.0	50	60	33.3 x 2.4
MHF-MLM-5245-MC	S / L	PN 160	38	35	M 52 x 2	M 45 x 2	48.0	50	60	33.3 x 2.4
MHF-MLM-5252-MC	S / L	PN 160	38	42	M 52 x 2	M 52 x 2	50.5	55	60	33.3 x 2.4

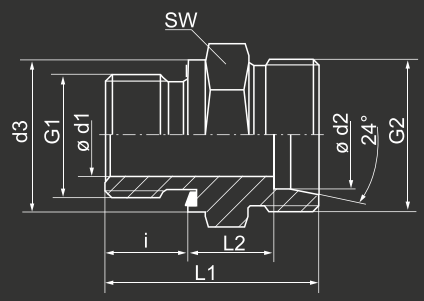
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

Metric Male / BSP Parallel Male (GE - R - ED)

Screw-in fitting



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Shape E
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Screw-in fitting
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G1	G2	Ø d3 mm	i mm	L1 mm	L2 mm	SW mm
EDB-MLLM-0208-MC	LL	PN 100	4	G 1/8″–28	M 8 x 1	14	8	20.0	9.5	14
EDB-MLLM-0210-MC	LL	PN 100	6	G 1/8″–28	M 10 x 1	14	8	20.0	8.0	14
EDB-MLM-0212-MC	L	PN 315	6	G 1/8″–28	M 12 x 1.5	14	8	23.5	8.5	14
EDB-MLM-0214-MC	L	PN 315	8	G 1/8″–28	M 14 x 1.5	14	8	24.5	9.5	14
EDB-MLM-0216-MC	L	PN 315	10	G 1/8″–28	M 16 x 1.5	14	8	25.5	10.5	17
EDB-MLM-0412-MC	L	PN 315	6	G 1/4″–19	M 12 x 1.5	20	12	29.0	10.0	19
EDB-MLM-0414-MC	L	PN 315	8	G 1/4″–19	M 14 x 1.5	19	12	29.0	10.0	19
EDB-MLM-0416-MC	L	PN 315	10	G 1/4″–19	M 16 x 1.5	19	12	30.0	11.0	19
EDB-MLM-0418-MC	L	PN 315	12	G 1/4″–19	M 18 x 1.5	19	12	31.5	12.5	22
EDB-MLM-0612-MC	L	PN 315	6	G 3/8″–19	M 12 x 1.5	22	12	26.0	11.5	22
EDB-MLM-0614-MC	L	PN 315	8	G 3/8″–19	M 14 x 1.5	22	12	30.5	11.5	22
EDB-MLM-0616-MC	L	PN 315	10	G 3/8″–19	M 16 x 1.5	22	12	31.5	12.5	22
EDB-MLM-0618-MC	L	PN 315	12	G 3/8″–19	M 18 x 1.5	22	12	31.5	12.5	22
EDB-MLM-0622-MC	L	PN 315	15	G 3/8″–19	M 22 x 1.5	22	12	33.0	14.0	27
EDB-MLM-0626-MC	L	PN 315	18	G 3/8″–19	M 26 x 1.5	22	12	33.5	14.0	27
EDB-MLM-0812-MC	L	PN 315	6	G 1/2″–14	M 12 x 1.5	27	14	33.0	12.0	27
EDB-MLM-0814-MC	L	PN 315	8	G 1/2″–14	M 14 x 1.5	27	14	33.0	12.0	27
EDB-MLM-0816-MC	L	PN 315	10	G 1/2″–14	M 16 x 1.5	27	14	34.0	13.0	27
EDB-MLM-0818-MC	L	PN 315	12	G 1/2″–14	M 18 x 1.5	27	14	34.0	13.0	27
EDB-MLM-0822-MC	L	PN 315	15	G 1/2″–14	M 22 x 1.5	27	14	35.0	14.0	27
EDB-MLM-0826-MC	L	PN 315	18	G 1/2″–14	M 26 x 1.5	27	14	36.0	14.5	27
EDB-MLM-0830-MC	L	PN 160	22	G 1/2″–14	M 30 x 2	27	14	38.0	16.5	32
EDB-MLM-1218-MC	L	PN 250	12	G 3/4″–14	M 18 x 1.5	32	16	36.0	13.0	32
EDB-MLM-1222-MC	L	PN 250	15	G 3/4″–14	M 22 x 1.5	32	16	38.0	15.0	32
EDB-MLM-1226-MC	L	PN 250	18	G 3/4″–14	M 26 x 1.5	32	16	38.0	14.5	32

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

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Metric Male / BSP Parallel Male (GE - R - ED)

Screw-in fitting

Identification	Series	Working pressure bar	Ø d2 mm	G1	G2	Ø d3 mm	i mm	L1 mm	L2 mm	SW mm
EDB-MLM-1230-MC	L	PN 160	22	G 3/4"–14	M 30 x 2	32	16	40.0	16.5	32
EDB-MLM-1236-MC	L	PN 160	28	G 3/4"–14	M 36 x 2	32	16	41.0	17.5	41
EDB-MLM-1630-MC	L	PN 160	22	G 1"–11	M 30 x 2	40	18	42.0	16.5	41
EDB-MLM-1636-MC	L	PN 160	28	G 1"–11	M 36 x 2	40	18	43.0	17.5	41
EDB-MLM-1645-MC	L	PN 160	35	G 1"–11	M 45 x 2	40	18	46.0	17.5	50
EDB-MLM-2036-MC	L	PN 160	28	G 1.1/4"–11	M 36 x 2	50	20	46.0	18.5	50
EDB-MLM-2045-MC	L	PN 160	35	G 1.1/4"–11	M 45 x 2	50	20	48.0	17.5	50
EDB-MLM-2052-MC	L	PN 160	42	G 1.1/4"–11	M 52 x 2	50	20	50.0	19.0	55
EDB-MLM-2452-MC	L	PN 160	42	G 1.1/2"–11	M 52 x 2	55	22	52.0	19.0	55
EDB-MHM-0414-MC	S	PN 630	6	G 1/4"–19	M 14 x 1.5	19	12	32.0	13.0	19
EDB-MHM-0416-MC	S	PN 630	8	G 1/4"–19	M 16 x 1.5	19	12	34.0	15.0	19
EDB-MHM-0418-MC	S	PN 630	10	G 1/4"–19	M 18 x 1.5	19	12	34.0	14.5	22
EDB-MHM-0420-MC	S	PN 630	12	G 1/4"–19	M 20 x 1.5	19	12	36.0	16.5	22
EDB-MHM-0616-MC	S	PN 630	8	G 3/8"–19	M 16 x 1.5	22	12	34.5	15.5	22
EDB-MHM-0618-MC	S	PN 630	10	G 3/8"–19	M 18 x 1.5	22	12	34.5	15.0	22
EDB-MHM-0620-MC	S	PN 630	12	G 3/8"–19	M 20 x 1.5	22	12	36.5	17.0	22
EDB-MHM-0622-MC	S	PN 630	14	G 3/8"–19	M 22 x 1.5	22	12	38.5	18.5	27
EDB-MHM-0624-MC	S	PN 400	16	G 3/8"–19	M 24 x 1.5	22	12	38.5	18.0	27
EDB-MHM-0814-MC	S	PN 630	6	G 1/2"–14	M 14 x 1.5	27	14	39.0	18.0	27
EDB-MHM-0818-MC	S	PN 630	10	G 1/2"–14	M 18 x 1.5	27	14	39.0	17.5	27
EDB-MHM-0820-MC	S	PN 630	12	G 1/2"–14	M 20 x 1.5	27	14	39.0	17.5	27
EDB-MHM-0822-MC	S	PN 630	14	G 1/2"–14	M 22 x 1.5	27	14	41.0	19.0	27
EDB-MHM-0824-MC	S	PN 400	16	G 1/2"–14	M 24 x 1.5	27	14	41.0	18.5	27
EDB-MHM-0830-MC	S	PN 400	20	G 1/2"–14	M 30 x 2	27	14	45.0	20.5	32
EDB-MHM-0836-MC	S	PN 400	25	G 1/2"–14	M 36 x 2	27	14	49.0	23.0	41
EDB-MHM-1222-MC	S	PN 630	14	G 3/4"–14	M 22 x 1.5	32	16	45.0	21.0	32
EDB-MHM-1224-MC	S	PN 400	16	G 3/4"–14	M 24 x 1.5	32	16	45.0	20.5	32
EDB-MHM-1230-MC	S	PN 400	20	G 3/4"–14	M 30 x 2	32	16	47.0	20.5	32
EDB-MHM-1236-MC	S	PN 400	25	G 3/4"–14	M 36 x 2	32	16	51.0	23.0	41
EDB-MHM-1630-MC	S	PN 400	20	G 1"–11	M 30 x 2	40	18	51.0	22.5	41
EDB-MHM-1636-MC	S	PN 400	25	G 1"–11	M 36 x 2	40	18	53.0	23.0	41
EDB-MHM-1642-MC	S	PN 400	30	G 1"–11	M 42 x 2	40	18	55.0	23.5	50
EDB-MHM-2042-MC	S	PN 400	30	G 1.1/4"–11	M 42 x 2	50	20	57.0	23.5	50
EDB-MHM-2052-MC	S	PN 315	38	G 1.1/4"–11	M 52 x 2	50	20	62.0	26.0	55
EDB-MHM-2452-MC	S	PN 315	38	G 1.1/2"–11	M 52 x 2	55	22	64.0	26.0	55

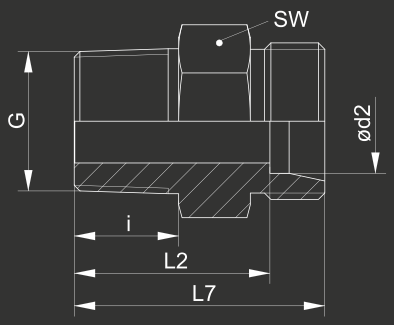
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Male / BSP Tapered Male GE - R (KEG)

Screw-in fitting



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Screw-in fitting
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G	i mm	L2 mm	L7 mm	SW mm
BTM-MLLM-0208-MC	LL	PN 100	4	R 1/8″K	8.0	16.0	20.0	11
BTM-MLLM-0209-MC	LL	PN 100	5	R 1/8″K	8.0	14.5	20.0	11
BTM-MLLM-0210-MC	LL	PN 100	6	R 1/8″K	8.0	14.5	20.0	11
BTM-MLLM-0212-MC	LL	PN 100	8	R 1/8″K	8.0	16.5	22.0	12
BTM-MLLM-0410-MC	LL	PN 100	6	R 1/4″K	12.0	14.5	20.0	12
BTM-MLLM-0412-MC	LL	PN 100	8	R 1/4″K	12.0	20.5	26.0	14
BTM-MLLM-0414-MC	LL	PN 100	10	R 1/4″K	12.0	20.5	26.0	14
BTM-MLLM-0416-MC	LL	PN 100	12	R 1/4″K	12.0	20.0	26.0	17
BTM-MLLM-0616-MC	LL	PN 100	12	R 3/8″K	12.0	20.0	26.0	17
BTM-MLM-0212-MC	L	PN 315	6	R 1/8″K	10.5	17.5	24.5	12
BTM-MLM-0214-MC	L	PN 315	6	R 1/4″K	14.0	22.0	29.0	17
BTM-MLM-0214-MC	L	PN 315	8	R 1/8″K	10.5	18.5	25.5	14
BTM-MLM-0216-MC	L	PN 315	10	R 1/8″K	10.5	19.5	26.5	17
BTM-MLM-0414-MC	L	PN 315	8	R 1/4″K	14.0	22.0	29.0	17
BTM-MLM-0416-MC	L	PN 315	10	R 1/4″K	14.0	23.0	30.0	17
BTM-MLM-0418-MC	L	PN 315	12	R 1/4″K	14.0	24.0	31.0	19
BTM-MLM-0614-MC	L	PN 315	8	R 3/8″K	14.5	22.5	30.5	19
BTM-MLM-0616-MC	L	PN 315	10	R 3/8″K	14.5	24.5	31.5	19
BTM-MLM-0618-MC	L	PN 315	12	R 3/8″K	14.5	24.5	31.5	19
BTM-MLM-0622-MC	L	PN 315	15	R 3/8″K	14.5	25.5	24.0	33
BTM-MLM-0626-MC	L	PN 315	18	R 3/8″K	14.5	26.0	33.5	27
BTM-MLM-0814-MC	L	PN 315	8	R 1/2″K	18.5	27.5	34.5	22
BTM-MLM-0816-MC	L	PN 315	10	R 1/2″K	18.5	28.5	35.5	22
BTM-MLM-0818-MC	L	PN 315	12	R 1/2″K	18.5	28.5	35.5	24
BTM-MLM-0822-MC	L	PN 315	15	R 1/2″K	18.5	29.5	36.5	24
BTM-MLM-0826-MC	L	PN 315	18	R 1/2″K	18.5	30.0	37.5	27

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

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Metric Male / BSP Tapered Male GE - R (KEG)

Screw-in fitting

Identification	Series	Working pressure bar	Ø d2 mm	G	i mm	L2 mm	L7 mm	SW mm
BTM-MLM-0830-MC	L	PN 160	22	R 1/2"K	18.5	32.0	39.5	32
BTM-MLM-1226-MC	L	PN 160	18	R 3/4"K	20.0	31.5	39.0	32
BTM-MLM-1230-MC	L	PN 160	22	R 3/4"K	20.0	33.5	41.0	32
BTM-MLM-1636-MC	L	PN 160	28	R 1"K	24.0	38.5	46.0	41
BTM-MLM-1645-MC	L	PN 160	35	R 1"K	24.0	40.5	51.0	46
BTM-MLM-2045-MC	L	PN 160	35	R 1.1/4"K	26.0	42.5	53.0	46
BTM-MLM-2452-MC	L	PN 160	42	R 1.1/2"K	27.0	43.0	54.0	55
BTM-MHM-0414-MC	S	PN 400	6	R 1/4"K	14.0	27.0	34.0	17
BTM-MHM-0416-MC	S	PN 400	8	R 1/4"K	14.0	27.0	34.0	17
BTM-MHM-0418-MC	S	PN 400	10	R 1/4"K	14.0	26.5	34.0	19
BTM-MHM-0420-MC	S	PN 400	12	R 1/4"K	14.0	28.5	36.0	22
BTM-MHM-0618-MC	S	PN 400	10	R 3/8"K	14.5	27.0	34.5	19
BTM-MHM-0620-MC	S	PN 400	12	R 3/8"K	14.5	29.0	36.5	22
BTM-MHM-0622-MC	S	PN 400	14	R 3/8"K	14.5	30.5	38.5	24
BTM-MHM-0624-MC	S	PN 400	16	R 3/8"K	14.5	30.0	38.5	27
BTM-MHM-0820-MC	S	PN 400	12	R 1/2"K	18.5	33.0	40.5	22
BTM-MHM-0822-MC	S	PN 400	14	R 1/2"K	18.5	34.5	42.5	24
BTM-MHM-0824-MC	S	PN 400	16	R 1/2"K	18.5	34.0	42.5	27
BTM-MHM-1230-MC	S	PN 400	20	R 3/4"K	20.0	37.5	48.0	32
BTM-MHM-1636-MC	S	PN 400	25	R 1"K	24.0	43.0	55.0	41
BTM-MHM-1642-MC	S	PN 400	30	R 1"K	24.0	43.5	57.0	46
BTM-MHM-2042-MC	S	PN 400	30	R 1.1/4"K	26.0	45.5	59.0	46
BTM-MHM-2452-MC	S	PN 315	38	R 1.1/2"K	27.0	49.0	65.0	55

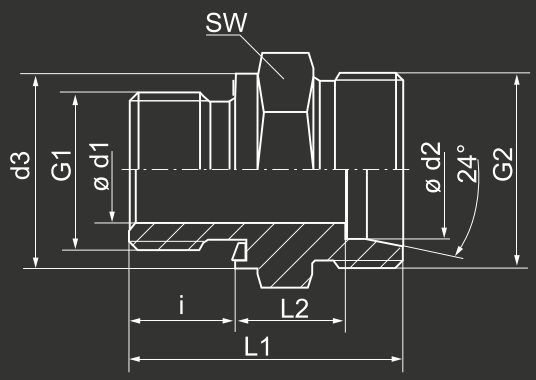
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Male / Metric Stud Male (GE - M)

Screw-in fitting



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Shape E
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Screw-in fitting
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G1	G2	Ø d3 mm	i mm	L1 mm	L2 mm	SW mm
EDM-MLM-1012-MC	L	PN 315	6	M 10 x 1	M 12 x 1.5	13.9	8	23.5	8.5	14
EDM-MLM-1212-MC	L	PN 315	6	M 12 x 1.5	M 12 x 1.5	16.9	12	28.0	9.0	17
EDM-MLM-1214-MC	L	PN 315	8	M 12 x 1.5	M 14 x 1.5	16.9	12	29.0	10.0	17
EDM-MLM-1216-MC	L	PN 315	10	M 12 x 1.5	M 16 x 1.5	16.9	12	30.0	11.0	19
EDM-MLM-1416-MC	L	PN 315	10	M 14 x 1.5	M 16 x 1.5	18.9	12	30.0	11.0	19
EDM-MLM-1418-MC	L	PN 315	12	M 14 x 1.5	M 18 x 1.5	18.9	12	31.5	12.5	22
EDM-MLM-1614-MC	L	PN 315	8	M 16 x 1.5	M 14 x 1.5	21.9	12	30.5	11.5	22
EDM-MLM-1616-MC	L	PN 315	10	M 16 x 1.5	M 16 x 1.5	21.9	12	31.5	12.5	22
EDM-MLM-1618-MC	L	PN 315	12	M 16 x 1.5	M 18 x 1.5	21.9	12	31.5	12.5	22
EDM-MLM-1622-MC	L	PN 315	15	M 16 x 1.5	M 22 x 1.5	21.9	12	32.0	13.0	24
EDM-MLM-1814-MC	L	PN 315	8	M 18 x 1.5	M 14 x 1.5	23.9	12	30.5	11.5	24
EDM-MLM-1816-MC	L	PN 315	10	M 18 x 1.5	M 16 x 1.5	23.9	12	31.5	12.5	24
EDM-MLM-1818-MC	L	PN 315	12	M 18 x 1.5	M 18 x 1.5	23.9	12	32.0	13.0	24
EDM-MLM-1822-MC	L	PN 315	15	M 18 x 1.5	M 22 x 1.5	23.9	12	32.5	13.5	24
EDM-MLM-1826-MC	L	PN 315	18	M 18 x 1.5	M 26 x 1.5	23.9	12	33.5	14.0	27
EDM-MLM-2216-MC	L	PN 315	10	M 22 x 1.5	M 16 x 1.5	26.9	14	35.0	14.0	27
EDM-MLM-2218-MC	L	PN 315	12	M 22 x 1.5	M 18 x 1.5	26.9	14	35.0	14.0	27
EDM-MLM-2222-MC	L	PN 315	15	M 22 x 1.5	M 22 x 1.5	26.9	14	35.0	14.0	27
EDM-MLM-2226-MC	L	PN 315	18	M 22 x 1.5	M 26 x 1.5	26.9	14	36.0	14.5	27
EDM-MLM-2230-MC	L	PN 160	22	M 22 x 1.5	M 30 x 2	26.9	14	38.0	16.5	32
EDM-MLM-2630-MC	L	PN 160	22	M 26 x 1.5	M 30 x 2	31.9	16	40.0	16.5	32

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

Metric Male / Metric Stud Male (GE - M)

Screw-in fitting

Identification	Series	Working pressure bar	Ø d2 mm	G1	G2	Ø d3 mm	i mm	L1 mm	L2 mm	SW mm
EDM-MLM-3336-MC	L	PN 160	28	M 33 x 2	M 36 x 2	39.9	18	43.0	17.5	41
EDM-MLM-4245-MC	L	PN 160	35	M 42 x 2	M 45 x 2	49.9	20	48.0	17.5	50
EDM-MLM-4852-MC	L	PN 160	42	M 48 x 2	M 52 x 2	54.9	22	52.0	19.0	55
EDM-MHM-1214-MC	S	PN 630	6	M 12 x 1.5	M 14 x 1.5	16.9	12	32.0	13.0	17
EDM-MHM-1416-MC	S	PN 630	8	M 14 x 1.5	M 16 x 1.5	18.9	12	34.0	15.0	19
EDM-MHM-1618-MC	S	PN 630	10	M 16 x 1.5	M 18 x 1.5	21.9	12	34.5	15.0	22
EDM-MHM-1820-MC	S	PN 630	12	M 18 x 1.5	M 20 x 1.5	23.9	12	36.5	17.0	24
EDM-MHM-1824-MC	S	PN 400	16	M 18 x 1.5	M 24 x 1.5	23.9	12	38.5	18.0	27
EDM-MHM-2022-MC	S	PN 630	14	M 20 x 1.5	M 22 x 1.5	25.9	14	41.0	19.0	27
EDM-MHM-2220-MC	S	PN 400	12	M 22 x 1.5	M 20 x 1.5	26.9	14	39.0	17.5	27
EDM-MHM-2224-MC	S	PN 400	16	M 22 x 1.5	M 24 x 1.5	26.9	14	41.0	18.5	27
EDM-MHM-2730-MC	S	PN 400	20	M 27 x 2	M 30 x 2	31.9	16	47.0	20.5	32
EDM-MHM-3336-MC	S	PN 400	25	M 33 x 2	M 36 x 2	39.9	18	53.0	23.0	41
EDM-MHM-4242-MC	S	PN 400	30	M 42 x 2	M 42 x 2	49.9	20	57.0	23.5	50
EDM-MHM-4852-MC	S	PN 315	38	M 48 x 2	M 52 x 2	54.9	22	64.0	26.0	55

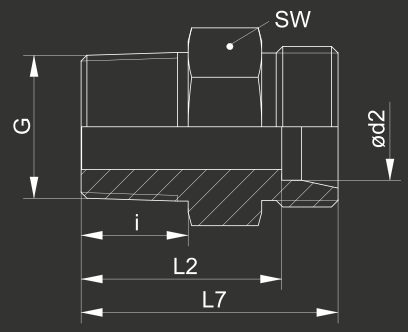
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Male / NP Tapered Male (GE - NPT)

Screw-in fitting



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Screw-in fitting
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G	i mm	L2 mm	L7 mm	SW mm
NTM-MLLM-0208-MC	LL	PN 100	4	1/8"–27 NPT	10.0	18.0	22.0	11
NTM-MLLM-0209-MC	LL	PN 100	5	1/8"–27 NPT	10.0	16.5	22.0	11
NTM-MLLM-0210-MC	LL	PN 100	6	1/8"–27 NPT	10.0	16.5	22.0	11
NTM-MLLM-0212-MC	LL	PN 100	8	1/8"–27 NPT	10.0	18.5	24.0	12
NTM-MLM-0212-MC	L	PN 315	6	1/8"–27 NPT	10.0	17.0	24.0	12
NTM-MLM-0214-MC	L	PN 315	8	1/8"–27 NPT	10.0	18.0	25.0	17
NTM-MLM-0216-MC	L	PN 315	10	1/8"–27 NPT	10.0	19.0	26.0	17
NTM-MLM-0218-MC	L	PN 315	12	1/8"–27 NPT	10.0	19.5	26.5	19
NTM-MLM-0412-MC	L	PN 315	6	1/4"–18 NPT	15.0	23.0	30.0	17
NTM-MLM-0414-MC	L	PN 315	8	1/4"–18 NPT	15.0	23.0	30.0	17
NTM-MLM-0416-MC	L	PN 315	10	1/4"–18 NPT	15.0	24.0	31.0	17
NTM-MLM-0418-MC	L	PN 315	12	1/4"–18 NPT	15.0	25.0	32.0	19
NTM-MLM-0422-MC	L	PN 315	15	1/4"–18 NPT	15.0	26.0	33.0	24
NTM-MLM-0426-MC	L	PN 315	18	1/4"–18 NPT	15.0	26.5	34.0	27
NTM-MLM-0612-MC	L	PN 315	6	3/8"–18 NPT	15.3	24.0	31.0	19
NTM-MLM-0614-MC	L	PN 315	8	3/8"–18 NPT	15.3	24.0	31.0	19
NTM-MLM-0616-MC	L	PN 315	10	3/8"–18 NPT	15.3	25.0	32.0	19
NTM-MLM-0618-MC	L	PN 315	12	3/8"–18 NPT	15.3	25.0	32.0	19
NTM-MLM-0622-MC	L	PN 315	15	3/8"–18 NPT	15.3	26.5	33.5	24
NTM-MLM-0812-MC	L	PN 315	6	1/2"–14 NPT	20.0	29.0	36.0	24
NTM-MLM-0814-MC	L	PN 315	8	1/2"–14 NPT	20.0	29.0	36.0	24
NTM-MLM-0816-MC	L	PN 315	10	1/2"–14 NPT	20.0	30.0	37.0	24
NTM-MLM-0818-MC	L	PN 315	12	1/2"–14 NPT	20.0	30.0	37.0	24
NTM-MLM-0822-MC	L	PN 315	15	1/2"–14 NPT	20.0	31.0	38.0	24

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

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Metric Male / NP Tapered Male (GE - NPT)

Screw-in fitting

Identification	Series	Working pressure bar	Ø d2 mm	G	i mm	L2 mm	L7 mm	SW mm
NTM-MLM-0826-MC	L	PN 315	18	1/2"–14 NPT	20.0	31.5	39.0	27
NTM-MLM-0830-MC	L	PN 160	22	1/2"–14 NPT	20.0	33.5	41.0	32
NTM-MLM-1218-MC	L	PN 315	12	3/4"–14 NPT	20.2	31.0	38.0	27
NTM-MLM-1222-MC	L	PN 315	15	3/4"–14 NPT	20.2	32.0	39.0	27
NTM-MLM-1226-MC	L	PN 315	18	3/4"–14 NPT	20.2	31.5	39.0	27
NTM-MLM-1230-MC	L	PN 160	22	3/4"–14 NPT	20.2	33.5	41.0	32
NTM-MLM-1636-MC	L	PN 160	28	1"–11.5 NPT	25.0	39.5	47.0	41
NTM-MLM-1645-MC	L	PN 160	35	1"–11.5 NPT	25.0	40.0	50.5	46
NTM-MLM-2045-MC	L	PN 160	35	1.1/4"–11.5 NPT	25.6	40.5	51.0	46
NTM-MLM-2452-MC	L	PN 160	42	1.1/2"–11.5 NPT	26.0	42.0	53.0	55
NTM-MHM-0414-MC	S	PN 630	6	1/4"–18 NPT	15.0	28.0	35.0	17
NTM-MHM-0416-MC	S	PN 630	8	1/4"–18 NPT	15.0	28.0	35.0	17
NTM-MHM-0418-MC	S	PN 630	10	1/4"–18 NPT	15.0	27.5	35.0	19
NTM-MHM-0420-MC	S	PN 630	12	1/4"–18 NPT	15.0	29.0	36.5	22
NTM-MHM-0616-MC	S	PN 630	8	3/8"–18 NPT	15.3	28.0	35.0	19
NTM-MHM-0618-MC	S	PN 630	10	3/8"–18 NPT	15.3	27.5	35.0	19
NTM-MHM-0620-MC	S	PN 630	12	3/8"–18 NPT	15.3	29.5	37.0	22
NTM-MHM-0622-MC	S	PN 630	14	3/8"–18 NPT	15.3	31.5	39.5	24
NTM-MHM-0814-MC	S	PN 630	6	1/2"–14 NPT	20.0	35.0	42.0	24
NTM-MHM-0818-MC	S	PN 630	10	1/2"–14 NPT	20.0	34.5	42.0	24
NTM-MHM-0820-MC	S	PN 630	12	1/2"–14 NPT	20.0	34.5	42.0	24
NTM-MHM-0822-MC	S	PN 630	14	1/2"–14 NPT	20.0	36.0	44.0	24
NTM-MHM-0824-MC	S	PN 400	16	1/2"–14 NPT	20.0	35.5	44.0	27
NTM-MHM-0830-MC	S	PN 400	20	1/2"–14 NPT	20.0	37.5	48.0	32
NTM-MHM-1224-MC	S	PN 400	16	3/4"–14 NPT	20.2	37.5	46.0	32
NTM-MHM-1230-MC	S	PN 400	20	3/4"–14 NPT	20.2	37.5	48.0	32
NTM-MHM-1236-MC	S	PN 400	25	3/4"–14 NPT	20.2	40.0	52.0	41
NTM-MHM-1630-MC	S	PN 400	20	1"–11.5 NPT	25.0	44.5	55.0	41
NTM-MHM-1636-MC	S	PN 400	25	1"–11.5 NPT	25.0	45.0	57.0	41
NTM-MHM-1642-MC	S	PN 400	30	1"–11.5 NPT	25.0	46.0	59.5	46
NTM-MHM-2036-MC	S	PN 400	25	1.1/4"–11.5 NPT	25.6	46.0	58.0	46
NTM-MHM-2042-MC	S	PN 400	30	1.1/4"–11.5 NPT	25.6	46.5	60.0	46
NTM-MHM-2452-MC	S	PN 315	38	1.1/2"–11.5 NPT	26.0	49.0	65.0	55

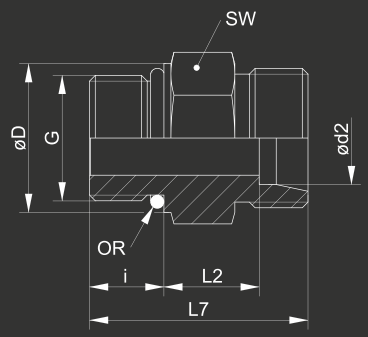
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Male / UN'O' Ring Male (GE - UNF / UN)

Screw-in fitting



Connection 1:	UN / UNF external threads
Sealing form 1:	Shape F
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Screw-in fitting
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G (Thread)	Ø D mm	i mm	L2 mm	L7 mm	SW	O - Ring (OR)
UNM-MLM-0412-MC	L	PN 315	6	7/16"-20 UNF	14.4	9.1	9.9	26.0	17	9.17 x 1.83
UNM-MLM-0414-MC	L	PN 315	8	7/16"-20 UNF	14.4	9.1	12.9	29.0	17	9.17 x 1.83
UNM-MLM-0416-MC	L	PN 315	10	7/16"-20 UNF	14.4	9.1	13.9	30.0	17	9.17 x 1.83
UNM-MLM-0512-MC	L	PN 315	6	1/2"-20 UNF	16.8	9.1	9.9	26.0	17	10.52 x 1.83
UNM-MLM-0514-MC	L	PN 315	8	1/2"-20 UNF	16.8	9.1	12.9	29.0	17	10.52 x 1.83
UNM-MLM-0612-MC	L	PN 315	6	9/16"-18 UNF	17.6	10.0	11.0	28.0	19	11.89 x 1.98
UNM-MLM-0614-MC	L	PN 315	8	9/16"-18 UNF	17.6	10.0	13.0	30.0	19	11.89 x 1.98
UNM-MLM-0616-MC	L	PN 315	10	9/16"-18 UNF	17.6	10.0	14.0	31.0	19	11.89 x 1.98
UNM-MLM-0618-MC	L	PN 315	12	9/16"-18 UNF	17.6	10.0	12.0	29.0	19	11.89 x 1.98
UNM-MLM-0622-MC	L	PN 315	15	9/16"-18 UNF	17.6	10.0	14.0	31.0	24	11.89 x 1.98
UNM-MLM-0816-MC	L	PN 315	10	3/4"-16 UNF	22.3	11.1	14.9	33.0	24	16.36 x 2.20
UNM-MLM-0818-MC	L	PN 315	12	3/4"-16 UNF	22.3	11.1	12.9	31.0	24	16.36 x 2.20
UNM-MLM-0822-MC	L	PN 315	15	3/4"-16 UNF	22.3	11.1	13.9	32.0	24	16.36 x 2.20
UNM-MLM-0826-MC	L	PN 315	18	3/4"-16 UNF	22.3	11.1	14.4	33.0	27	16.36 x 2.20
UNM-MLM-1018-MC	L	PN 315	12	7/8"-14 UNF	25.5	12.7	14.3	34.0	27	19.18 x 2.46
UNM-MLM-1022-MC	L	PN 315	15	7/8"-14 UNF	25.5	12.7	15.8	35.5	27	19.18 x 2.46
UNM-MLM-1026-MC	L	PN 315	18	7/8"-14 UNF	25.5	12.7	14.5	34.7	27	19.18 x 2.46
UNM-MLM-1030-MC	L	PN 160	22	7/8"-14 UNF	25.5	12.7	16.8	37.0	32	19.18 x 2.46
UNM-MLM-1036-MC	L	PN 160	28	7/8"-14 UNF	25.5	12.7	19.8	40.0	41	19.18 x 2.46
UNM-MLM-1226-MC	L	PN 315	18	1.1/16"–12 UN	31.9	15.1	14.4	37.0	32	23.47 x 2.95
UNM-MLM-1230-MC	L	PN 160	22	1.1/16"–12 UN	31.9	15.1	16.4	39.0	32	23.47 x 2.95
UNM-MLM-1236-MC	L	PN 160	28	1.1/16"–12 UN	31.9	15.1	17.4	40.0	41	23.47 x 2.95
UNM-MLM-1630-MC	L	PN 160	22	1.5/16"–12 UN	38.2	15.1	17.4	40.0	41	29.74 x 2.95
UNM-MLM-1636-MC	L	PN 160	28	1.5/16"–12 UN	38.2	15.1	17.4	40.0	41	29.74 x 2.95
UNM-MLM-1645-MC	L	PN 160	35	1.5/16"–12 UN	38.2	15.1	17.4	43.0	46	29.74 x 2.95

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter

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Metric Male / UN'O' Ring Male (GE - UNF / UN)

Screw-in fitting

Identification	Series	Working pressure bar	Ø d2 mm	G (Thread)	Ø D mm	i mm	L2 mm	L7 mm	SW	O - Ring (OR)
UNM-MLM-2045-MC	L	PN 160	35	1.5/8"–12 UN	47.7	15.1	17.4	43.0	50	37.47 x 3.00
UNM-MLM-2445-MC	L	PN 160	42	1.5/8"–12 UN	47.7	15.1	18.9	45.0	55	37.47 x 3.00
UNM-MLM-2452-MC	L	PN 160	42	1.7/8"–12 UN	53.8	15.1	18.9	45.0	60	43.69 x 3.00
UNM-MHM-0414-MC	S	PN 630	6	7/16"-20 UNF	14.4	9.1	14.9	31.0	17	9.17 x 1.83
UNM-MHM-0416-MC	S	PN 630	8	7/16"-20 UNF	14.4	9.1	14.9	31.0	17	9.17 x 1.83
UNM-MHM-0516-MC	S	PN 630	8	1/2"-20 UNF	16.8	9.1	14.9	31.0	19	10.52 x 1.83
UNM-MHM-0616-MC	S	PN 630	8	9/16"-18 UNF	17.6	10.0	15.0	32.0	19	11.89 x 1.98
UNM-MHM-0618-MC	S	PN 630	10	9/16"-18 UNF	17.6	10.0	14.5	32.0	19	10.89 x 1.98
UNM-MHM-0620-MC	S	PN 630	12	9/16"-18 UNF	17.6	10.0	14.5	32.0	22	11.89 x 1.98
UNM-MHM-0818-MC	S	PN 630	10	3/4"-16 UNF	22.3	11.1	14.4	33.0	24	16.36 x 2.20
UNM-MHM-0820-MC	S	PN 630	12	3/4"-16 UNF	22.3	11.1	17.4	36.0	24	16.36 x 2.20
UNM-MHM-0822-MC	S	PN 630	14	3/4"-16 UNF	22.3	11.1	15.9	35.0	24	16.36 x 2.20
UNM-MHM-0824-MC	S	PN 400	16	3/4"-16 UNF	22.3	11.1	15.4	35.0	24	16.36 x 2.20
UNM-MHM-0830-MC	S	PN 400	20	3/4"-16 UNF	22.3	11.1	20.4	42.0	32	16.36 x 2.20
UNM-MHM-1020-MC	S	PN 630	12	7/8"-14 UNF	25.5	12.7	17.8	38.0	27	19.18 x 2.46
UNM-MHM-1024-MC	S	PN 400	16	7/8"-14 UNF	25.5	12.7	18.8	40.0	27	19.18 x 2.46
UNM-MHM-1030-MC	S	PN 400	20	7/8"-14 UNF	25.5	12.7	20.8	44.0	32	19.18 x 2.46
UNM-MHM-1224-MC	S	PN 400	16	1.1/16"–12 UN	31.9	15.1	20.4	44.0	32	23.47 x 2.95
UNM-MHM-1230-MC	S	PN 400	20	1.1/16"–12 UN	31.9	15.1	20.4	46.0	32	23.47 x 2.95
UNM-MHM-1236-MC	S	PN 400	25	1.1/16"–12 UN	31.9	15.1	22.9	50.0	41	23.47 x 2.95
UNM-MHM-1636-MC	S	PN 400	25	1.5/16"–12 UN	38.2	15.1	22.9	50.0	41	29.74 x 2.95
UNM-MHM-1642-MC	S	PN 400	30	1.5/16"–12 UN	38.2	15.1	23.4	52.0	46	29.74 x 2.95
UNM-MHM-2042-MC	S	PN 400	30	1.5/8"–12 UN	47.7	15.1	23.4	52.0	50	37.47 x 3.00
UNM-MHM-2052-MC	S	PN 315	38	1.5/8"–12 UN	47.7	15.1	25.9	57.0	55	37.47 x 3.00
UNM-MHM-2452-MC	S	PN 315	38	1.7/8"–12 UN	53.8	15.1	25.9	57.0	60	43.69 x 3.00

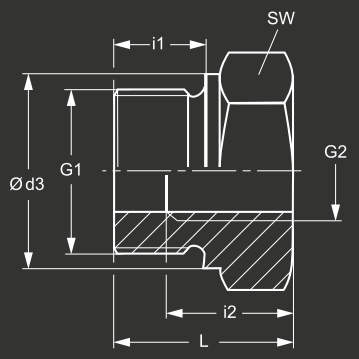
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

BSP Reducing Bush Short (RI)

Reducing adapter, Short



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Shape B
Connection 2:	BSP cylindrical internal threads
Design:	Reducing adapters
Construction:	Short
Material:	Steel
Surface:	MotusCoat™



Identification	Working pressure bar	G1	G2	Ø d3 mm	i1 mm	i2 mm	L mm	SW mm
BPM-BPF-0602-MC	PN 400	G 3/8″–19	G 1/8″–28	22	12	9	22.5	22
BPM-BPF-0802-MC	PN 400	G 1/2″–14	G 1/8″–28	26	14	9	24.0	27
BPM-BPF-0804-MC	PN 315	G 1/2″–14	G 1/4″–19	26	14	13	24.0	27
BPM-BPF-1204-MC	PN 315	G 3/4″–14	G 1/4″–19	32	16	13	26.0	32
BPM-BPF-1206-MC	PN 315	G 3/4″–14	G 3/8″–19	32	16	14	26.0	32
BPM-BPF-1604-MC	PN 315	G 1″–11	G 1/4″–19	39	18	14	29.0	41
BPM-BPF-1606-MC	PN 315	G 1″–11	G 3/8″–19	39	18	14	29.0	41
BPM-BPF-1608-MC	PN 315	G 1″–11	G 1/2″–14	39	18	16	29.0	41
BPM-BPF-2008-MC	PN 160	G 1.1/4″–11	G 1/2″–14	49	20	16	32.0	50
BPM-BPF-2012-MC	PN 160	G 1.1/4″–11	G 3/4″–14	49	20	18	32.0	50
BPM-BPF-2408-MC	PN 160	G 1.1/2″–11	G 1/2″–14	55	22	16	36.0	55
BPM-BPF-2412-MC	PN 160	G 1.1/2″–11	G 3/4″–14	55	22	18	36.0	55
BPM-BPF-2416-MC	PN 160	G 1.1/2″–11	G 1″–11	55	22	20	36.0	55

PN = Nominal pressure PB = Max. operating pressure
Product Version: Stainless Steel (SS)

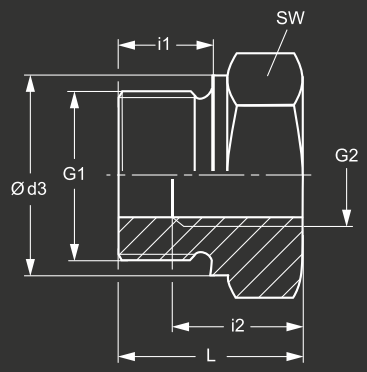
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BSP Reducing Bush Short (RI) ED

Reducing adapter, Short



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Shape E
Connection 2:	BSP cylindrical internal threads
Design:	Reducing adapters
Construction:	Short
Material:	Steel
Surface:	MotusCoat™



Identification	Working pressure bar	G1	G2	Ø d3 mm	i1 mm	i2 mm	L mm	SW mm
EDB-BPF-0602-MC	PN 400	G 3/8″–19	G 1/8″–28	21.9	12	9	22.5	22
EDB-BPF-0802-MC	PN 400	G 1/2″–14	G 1/8″–28	26.9	14	9	24.0	27
EDB-BPF-0804-MC	PN 400	G 1/2″–14	G 1/4″–19	26.9	14	14	24.0	27
EDB-BPF-1204-MC	PN 315	G 3/4″–14	G 1/4″–19	31.9	16	14	26.0	32
EDB-BPF-1206-MC	PN 315	G 3/4″–14	G 3/8″–19	31.9	16	14	26.0	32
EDB-BPF-1604-MC	PN 315	G 1″–11	G 1/4″–19	39.9	18	14	29.0	41
EDB-BPF-1606-MC	PN 315	G 1″–11	G 3/8″–19	39.9	18	14	29.0	41
EDB-BPF-1608-MC	PN 315	G 1″–11	G 1/2″–14	39.9	18	16	29.0	41
EDB-BPF-2008-MC	PN 315	G 1.1/4″–11	G 1/2″–14	49.9	20	16	32.0	50
EDB-BPF-2012-MC	PN 315	G 1.1/4″–11	G 3/4″–14	49.9	20	18	32.0	50
EDB-BPF-2408-MC	PN 250	G 1.1/2″–11	G 1/2″–14	54.9	22	16	36.0	55
EDB-BPF-2412-MC	PN 250	G 1.1/2″–11	G 3/4″–14	54.9	22	18	36.0	55
EDB-BPF-2416-MC	PN 250	G 1.1/2″–11	G 1″–11	54.9	22	20	36.0	55

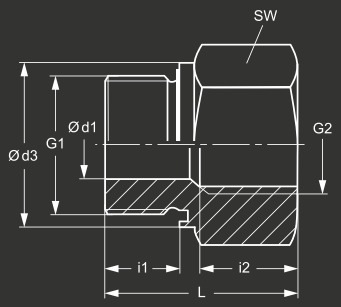
PN = Nominal pressure PB = Max. operating pressure
Product Version: Stainless Steel (SS)

BSP Reducing Bush Long (RI - ED)

Reducing adapter, long



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Shape E
Connection 2:	BSP cylindrical internal threads
Design:	Reducing adapters
Construction:	Long
Material:	Steel
Surface:	MotusCoat™



Identification	Working pressure bar	Ø d1 mm	G1	G2	Ø d3 mm	i1 mm	i2 mm	L mm	SW mm
EDB-BPF-0204-MC	PN 400	4	G 1/8″–28	G 1/4″–19	13.9	8	17.0	31.0	19
EDB-BPF-0206-MC	PN 400	4	G 1/8″–28	G 3/8″–19	13.9	8	17.0	32.0	24
EDB-BPF-0402-MC	PN 400	5	G 1/4″–19	G 1/8″–28	18.9	12	12.0	28.0	19
EDB-BPF-0406-MC	PN 400	5	G 1/4″–19	G 3/8″–19	18.9	12	17.0	36.0	24
EDB-BPF-0408-MC	PN 400	5	G 1/4″–19	G 1/2″–14	18.9	12	20.0	40.0	27
EDB-BPF-0412-MC	PN 400	5	G 1/4″–19	G 3/4″–14	18.9	12	22.0	43.0	36
EDB-BPF-0604-MC	PN 400	8	G 3/8″–19	G 1/4″–19	21.9	12	17.0	36.0	22
EDB-BPF-0608-MC	PN 400	8	G 3/8″–19	G 1/2″–14	21.9	12	20.0	41.0	27
EDB-BPF-0612-MC	PN 315	8	G 3/8″–19	G 3/4″–14	21.9	12	22.0	44.0	36
EDB-BPF-0806-MC	PN 400	12	G 1/2″–14	G 3/8″–19	26.9	14	17.0	36.0	27
EDB-BPF-0812-MC	PN 315	12	G 1/2″–14	G 3/4″–14	26.9	14	22.0	46.0	36
EDB-BPF-0816-MC	PN 315	12	G 1/2″–14	G 1″–11	26.9	14	24.5	49.0	41
EDB-BPF-0820-MC	PN 315	10	G 1/2″–14	G 1.1/4″–11	26.9	14	26.5	53.0	55
EDB-BPF-1208-MC	PN 315	16	G 3/4″–14	G 1/2″–14	31.9	16	20.0	41.0	32
EDB-BPF-1216-MC	PN 315	16	G 3/4″–14	G 1″–11	31.9	16	24.5	51.0	41
EDB-BPF-1220-MC	PN 315	16	G 3/4″–14	G 1.1/4″–11	31.9	16	26.5	55.0	55
EDB-BPF-1224-MC	PN 250	16	G 3/4″–14	G 1.1/2″–11	31.9	16	28.5	57.0	60
EDB-BPF-1612-MC	PN 315	20	G 1″–11	G 3/4″–14	39.9	18	22.0	47.0	41
EDB-BPF-1620-MC	PN 315	20	G 1″–11	G 1.1/4″–11	39.9	18	26.5	57.0	55
EDB-BPF-1624-MC	PN 250	20	G 1″–11	G 1.1/2″–11	39.9	18	28.5	59.0	60
EDB-BPF-2016-MC	PN 315	25	G 1.1/4″–11	G 1″–11	49.9	20	24.5	52.0	50
EDB-BPF-2024-MC	PN 250	25	G 1.1/4″–11	G 1.1/2″–11	49.9	20	28.5	60.0	60
EDB-BPF-2420-MC	PN 250	32	G 1.1/2″–11	G 1.1/4″–11	54.9	22	26.5	58.0	55
EDB-BPF-2432-MC	PN 160	40	G 2″–11	G 1.1/2″–11	69.9	24	28.5	65.5	70

PN = Nominal pressure PB = Max. operating pressure
Product Version: Stainless Steel (SS)

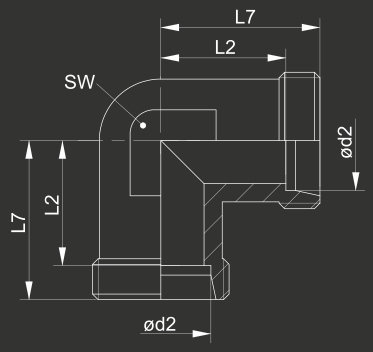
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Metric Male 90

Fitting, angle 90°



Connection 1 +2:	Metric cylindrical outer thread
Sealing form 1 +2:	24° inner cone
Design:	Fitting
Construction:	Angle 90°
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	External pipe Ø mm	L2 mm	L7 mm	SW mm
MLLM-MLLM-90C-0808-MC	LL	PN 100	4	11.0	15	9
MLLM-MLLM-90C-0909-MC	LL	PN 100	5	9.5	15	9
MLLM-MLLM-90C-1010-MC	LL	PN 100	6	9.5	15	9
MLLM-MLLM-90C-1212-MC	LL	PN 100	8	11.5	17	12
MLLM-MLLM-90C-1414-MC	LL	PN 100	10	12.5	18	14
MLLM-MLLM-90C-1616-MC	LL	PN 100	12	13.0	19	17
MLM-MLM-90C-1212-MC	L	PN 315	6	12.0	19	12
MLM-MLM-90C-1414-MC	L	PN 315	8	14.0	21	12
MLM-MLM-90C-1616-MC	L	PN 315	10	15.0	22	14
MLM-MLM-90C-1818-MC	L	PN 315	12	17.0	24	17
MLM-MLM-90C-2222-MC	L	PN 315	15	21.0	28	19
MLM-MLM-90C-2626-MC	L	PN 315	18	23.5	31	24
MLM-MLM-90C-3030-MC	L	PN 160	22	27.5	35	27
MLM-MLM-90C-3636-MC	L	PN 160	28	30.5	38	36
MLM-MLM-90C-4545-MC	L	PN 160	35	34.5	45	41
MLM-MLM-90C-5252-MC	L	PN 160	42	40.0	51	50
MHM-MHM-90C-1414-MC	S	PN 630	6	16.0	23	12
MHM-MHM-90C-1616-MC	S	PN 630	8	17.0	24	14
MHM-MHM-90C-1818-MC	S	PN 630	10	17.5	25	17
MHM-MHM-90C-2020-MC	S	PN 630	12	21.5	29	17
MHM-MHM-90C-2222-MC	S	PN 630	14	22.0	30	19
MHM-MHM-90C-2424-MC	S	PN 400	16	24.5	33	24
MHM-MHM-90C-3030-MC	S	PN 400	20	26.5	37	27
MHM-MHM-90C-3636-MC	S	PN 400	25	30.0	42	36
MHM-MHM-90C-4242-MC	S	PN 400	30	35.5	49	41
MHM-MHM-90C-5252-MC	S	PN 315	38	41.0	57	50

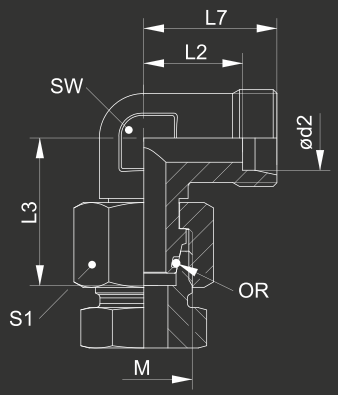
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Male / Female 90

Fitting, angle 90°



Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Adjustable direction fitting
Construction:	Angle 90°
Standard:	ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	M mm	L2 mm	L3 mm	L7 mm	SW mm	S1 mm	OR
MLM-MLF-90C-1212-MC	L	PN 315	6	M 12 x 1.5	12.0	26.0	19	12	14	4.0 x 1.5
MLM-MLF-90C-1414-MC	L	PN 315	8	M 14 x 1.5	14.0	26.5	21	12	17	6.0 x 1.5
MLM-MLF-90C-1616-MC	L	PN 315	10	M 16 x 1.5	15.0	29.0	22	14	19	7.5 x 1.5
MLM-MLF-90C-1818-MC	L	PN 315	12	M 18 x 1.5	17.0	29.5	24	17	22	9.0 x 1.5
MLM-MLF-90C-2222-MC	L	PN 315	15	M 22 x 1.5	21.0	32.5	28	19	27	12.0 x 2.0
MLM-MLF-90C-2626-MC	L	PN 315	18	M 26 x 1.5	23.5	35.5	31	24	32	15.0 x 2.0
MLM-MLF-90C-3030-MC	L	PN 160	22	M 30 x 2	27.5	39.5	35	27	36	20.0 x 2.0
MLM-MLF-90C-3636-MC	L	PN 160	28	M 36 x 2	30.5	43.0	38	36	41	26.0 x 2.0
MLM-MLF-90C-4545-MC	L	PN 160	35	M 45 x 2	34.5	51.5	45	41	50	32.0 x 2.5
MLM-MLF-90C-5252-MC	L	PN 160	42	M 52 x 2	40.0	56.0	51	50	60	38.0 x 2.5
MHM-MHF-90C-1414-MC	S	PN 630	6	M 14 x 1.5	16.0	27.0	23	12	17	4.0 x 1.5
MHM-MHF-90C-1616-MC	S	PN 630	8	M 16 x 1.5	17.0	27.5	24	14	19	6.0 x 1.5
MHM-MHF-90C-1818-MC	S	PN 630	10	M 18 x 1.5	17.5	30.0	25	17	22	7.5 x 1.5
MHM-MHF-90C-2020-MC	S	PN 630	12	M 20 x 1.5	21.5	31.0	29	17	24	9.0 x 1.5
MHM-MHF-90C-2222-MC	S	PN 630	14	M 22 x 1.5	22.0	36.5	30	19	27	10.0 x 2.0
MHM-MHF-90C-2424-MC	S	PN 400	16	M 24 x 1.5	24.5	37.5	33	24	30	12.0 x 2.0
MHM-MHF-90C-3030-MC	S	PN 400	20	M 30 x 2	26.5	45.0	37	27	36	-
MHM-MHF-90C-3636-MC	S	PN 400	25	M 36 x 2	30.0	50.5	42	36	46	-
MHM-MHF-90C-4242-MC	S	PN 400	30	M 42 x 2	35.5	55.0	49	41	50	25.3 x 2.4
MHM-MHF-90C-5252-MC	S	PN 315	38	M 52 x 2	41.0	63.0	57	50	60	33.3 x 2.4

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

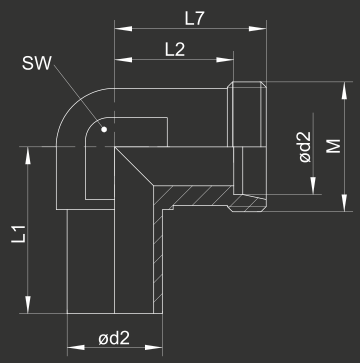
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Metric Male / Metric Standpipe 90

Fitting, angle 90°



Connection 1:	Pipe socket not pre-assembled
Sealing form 1:	Cutting ring connection
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Adjustable direction fitting
Construction:	Angle 90°
Standard:	ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	M	L1 mm	L2 mm	L7 mm	SW mm	S1 mm
MSP-MLM-90C-0612-MC	L	PN 315	6	M 12 x 1.5	26.0	12.0	19	12	14
MSP-MLM-90C-0814-MC	L	PN 315	8	M 14 x 1.5	27.5	14.0	21	12	17
MSP-MLM-90C-1016-MC	L	PN 315	10	M 16 x 1.5	29.0	15.0	22	14	19
MSP-MLM-90C-1218-MC	L	PN 315	12	M 18 x 1.5	29.5	17.0	24	17	22
MSP-MLM-90C-1522-MC	L	PN 315	15	M 22 x 1.5	32.5	21.0	28	19	27
MSP-MLM-90C-1826-MC	L	PN 315	18	M 26 x 1.5	35.5	23.5	31	24	32
MSP-MLM-90C-2230-MC	L	PN 160	22	M 30 x 2	38.5	27.5	35	27	36
MSP-MLM-90C-2836-MC	L	PN 160	28	M 36 x 2	42.0	30.5	38	36	41
MSP-MLM-90C-3545-MC	L	PN 160	35	M 45 x 2	51.0	34.5	45	41	50
MSP-MLM-90C-4252-MC	L	PN 160	42	M 52 x 2	60.0	40.0	51	50	60
MSP-MHM-90C-0614-MC	S	PN 630	6	M 14 x 1.5	27.0	16.0	23	12	17
MSP-MHM-90C-0816-MC	S	PN 630	8	M 16 x 1.5	27.5	17.0	24	14	19
MSP-MHM-90C-1018-MC	S	PN 630	10	M 18 x 1.5	31.0	17.5	25	17	22
MSP-MHM-90C-1220-MC	S	PN 630	12	M 20 x 1.5	31.0	21.5	29	17	24
MSP-MHM-90C-1422-MC	S	PN 630	14	M 22 x 1.5	35.0	22.0	30	19	27
MSP-MHM-90C-1624-MC	S	PN 400	16	M 24 x 1.5	34.5	24.5	33	24	30
MSP-MHM-90C-2030-MC	S	PN 400	20	M 30 x 2	44.5	26.5	37	27	36
MSP-MHM-90C-2536-MC	S	PN 400	25	M 36 x 2	50.0	30.0	42	36	46
MSP-MHM-90C-3042-MC	S	PN 400	30	M 42 x 2	55.0	35.5	49	41	50
MSP-MHM-90C-3852-MC	S	PN 315	38	M 52 x 2	66.5	41.0	57	50	60

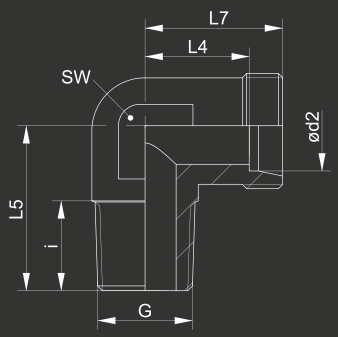
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Male / BSP Tapered Male 90

Screw-in fitting, angle 90°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Screw-in fitting
Construction:	Angle 90°
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G	i mm	L4 mm	L5 mm	L7 mm	SW
BTM-MLLM-90C-0208-MC	LL	PN 100	4	R 1/8"K	8	11.0	17.0	15.0	9
BTM-MLLM-90C-0209-MC	LL	PN 100	5	R 1/8"K	8	8.0	17.0	13.5	9
BTM-MLLM-90C-0210-MC	LL	PN 100	6	R 1/8"K	8	9.5	17.0	15.0	9
BTM-MLLM-90C-0412-MC	LL	PN 100	8	R 1/8"K	8	11.5	20.0	17.0	12
BTM-MLLM-90C-0414-MC	LL	PN 100	10	R 1/4"K	12	15.5	26.0	21.0	14
BTM-MLLM-90C-0416-MC	LL	PN 100	12	R 1/4"K	12	12.0	21.5	18.0	17
BTM-MLM-90C-0212-MC	L	PN 315	6	R 1/8"K	8	12.0	20.0	19.0	12
BTM-MLM-90C-0214-MC	L	PN 315	8	R 1/8"K	8	14.0	26.0	21.0	12
BTM-MLM-90C-0216-MC	L	PN 315	10	R 1/8"K	8	15.0	27.0	22.0	14
BTM-MLM-90C-0412-MC	L	PN 315	6	R 1/4"K	12	14.0	26.0	21.0	12
BTM-MLM-90C-0414-MC	L	PN 315	8	R 1/4"K	12	14.0	26.0	21.0	12
BTM-MLM-90C-0416-MC	L	PN 315	10	R 1/4"K	12	15.0	27.0	22.0	14
BTM-MLM-90C-0418-MC	L	PN 315	12	R 1/4"K	12	17.0	28.0	24.0	17
BTM-MLM-90C-0422-MC	L	PN 315	15	R 1/4"K	12	21.0	34.0	28.0	19
BTM-MLM-90C-0612-MC	L	PN 315	6	R 3/8"K	12	17.0	28.0	24.0	17
BTM-MLM-90C-0614-MC	L	PN 315	8	R 3/8"K	12	19.0	28.0	26.0	17
BTM-MLM-90C-0616-MC	L	PN 315	10	R 3/8"K	12	17.0	28.0	24.0	17
BTM-MLM-90C-0618-MC	L	PN 315	12	R 3/8"K	12	17.0	28.0	24.0	17
BTM-MLM-90C-0622-MC	L	PN 315	15	R 3/8"K	12	21.0	34.0	28.0	19
BTM-MLM-90C-0626-MC	L	PN 315	18	R 3/8"K	12	23.5	36.0	31.0	24
BTM-MLM-90C-0814-MC	L	PN 315	8	R 1/2"K	13	20.0	34.0	27.0	19
BTM-MLM-90C-0816-MC	L	PN 316	10	R 1/2"K	14	23.0	34.0	30.0	19

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

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Metric Male / BSP Tapered Male 90

Screw-in fitting, angle 90°

Identification	Series	Working pressure bar	Ø d2 mm	G	i mm	L4 mm	L5 mm	L7 mm	SW
BTM-MLM-90C-0818-MC	L	PN 315	12	R 1/2"K	14	23.0	34.0	30.0	19
BTM-MLM-90C-0822-MC	L	PN 315	15	R 1/2"K	14	21.0	34.0	28.0	19
BTM-MLM-90C-0826-MC	L	PN 315	18	R 1/2"K	14	23.5	36.0	31.0	24
BTM-MLM-90C-1218-MC	L	PN 315	12	R 3/4"K	16	28.0	42.0	35.0	27
BTM-MLM-90C-1226-MC	L	PN 315	18	R 3/4"K	16	27.5	42.0	35.0	27
BTM-MLM-90C-1230-MC	L	PN 160	22	R 3/4"K	16	27.5	42.0	35.0	27
BTM-MHM-90C-0414-MC	S	PN 400	6	R 1/4"K	12	16.0	26.0	23.0	12
BTM-MHM-90C-0416-MC	S	PN 400	8	R 1/4"K	12	17.0	27.0	24.0	14
BTM-MHM-90C-0618-MC	S	PN 400	10	R 3/8"K	12	17.5	28.0	25.0	17
BTM-MHM-90C-0620-MC	S	PN 400	12	R 3/8"K	12	21.5	28.0	29.0	17
BTM-MHM-90C-0624-MC	S	PN 400	16	R 3/8"K	12	24.5	32.0	33.0	24
BTM-MHM-90C-0820-MC	S	PN 400	12	R 1/2"K	14	23.5	34.0	31.0	19
BTM-MHM-90C-0822-MC	S	PN 400	14	R 1/2"K	14	22.0	32.0	30.0	19
BTM-MHM-90C-0824-MC	S	PN 400	16	R 1/2"K	14	24.5	32.0	33.0	24
BTM-MHM-90C-0830-MC	S	PN 400	20	R 1/2"K	14	26.5	42.0	37.0	27

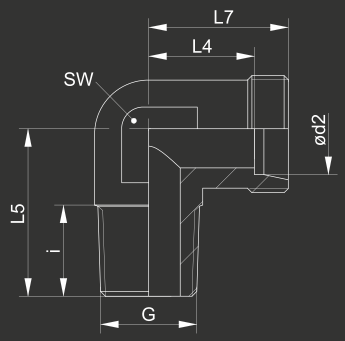
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Male / NP Tapered Male 90

Screw-in fitting, angle 90°



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Screw-in fitting
Construction:	Angle 90°
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	External pipe Ø mm	G	i mm	L4 mm	L5 mm	L7 mm	SW mm
NTM-MLLM-90C-0208-MC	LL	PN 100	4	1/8"–27 NPT	8.0	11.0	17	15.0	9
NTM-MLLM-90C-0209-MC	LL	PN 100	5	1/8"–27 NPT	8.0	11.0	17	15.0	9
NTM-MLLM-90C-0210-MC	LL	PN 100	6	1/8"–27 NPT	8.0	9.5	17	15.0	9
NTM-MLLM-90C-0212-MC	LL	PN 100	8	1/8"–27 NPT	10.0	11.5	20	17.0	12
NTM-MLM-90C-0212-MC	L	PN 315	6	1/8"–27 NPT	10.0	12.0	20	19.0	12
NTM-MLM-90C-0412-MC	L	PN 315	6	1/4"–18 NPT	12.0	14.0	26	21.0	12
NTM-MLM-90C-0414-MC	L	PN 315	8	1/4"–18 NPT	12.0	14.0	26	21.0	12
NTM-MLM-90C-0416-MC	L	PN 315	10	1/4"–18 NPT	14.0	15.0	27	22.0	14
NTM-MLM-90C-0418-MC	L	PN 315	12	1/4"–18 NPT	14.0	17.0	28	24.0	17
NTM-MLM-90C-0614-MC	L	PN 315	8	3/8"–18 NPT	15.2	11.5	20	18.5	12
NTM-MLM-90C-0616-MC	L	PN 315	10	3/8"–18 NPT	15.2	15.0	27	22.0	14
NTM-MLM-90C-0618-MC	L	PN 315	12	3/8"–18 NPT	12.5	17.0	28	24.0	17
NTM-MLM-90C-0622-MC	L	PN 315	15	3/8"–18 NPT	13.0	21.0	34	28.0	19
NTM-MLM-90C-0812-MC	L	PN 315	6	1/2"–14 NPT	17.0	23.0	34	30.0	19
NTM-MLM-90C-0814-MC	L	PN 315	8	1/2"–14 NPT	17.5	15.0	26	22.0	12
NTM-MLM-90C-0818-MC	L	PN 315	12	1/2"–14 NPT	19.0	23.0	34	30.0	19
NTM-MLM-90C-0822-MC	L	PN 315	15	1/2"–14 NPT	18.5	21.0	34	28.0	19
NTM-MLM-90C-0826-MC	L	PN 315	18	1/2"–14 NPT	20.0	23.5	36	31.0	24
NTM-MLM-90C-1226-MC	L	PN 315	18	3/4"–14 NPT	18.5	23.5	40	31.0	24
NTM-MLM-90C-1230-MC	L	PN 160	22	3/4"–14 NPT	18.5	27.5	42	35.0	27
NTM-MLM-90C-1636-MC	L	PN 160	28	1"–11.5 NPT	24.0	30.5	48	38.0	36

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

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Metric Male / NP Tapered Male 90

Screw-in fitting, angle 90°

Identification	Series	Working pressure bar	External pipe Ø mm	G	i mm	L4 mm	L5 mm	L7 mm	SW mm
NTM-MLM-90C-2045-MC	L	PN 160	35	1.1/4"–11.5 NPT	25.5	34.5	54	45.0	41
NTM-MLM-90C-2452-MC	L	PN 160	42	1.1/2"–11.5 NPT	26.0	40.0	61	51.0	50
NTM-MHM-90C-0414-MC	S	PN 630	6	1/4"–18 NPT	12.0	16.0	26	23.0	12
NTM-MHM-90C-0616-MC	S	PN 630	8	1/4"–18 NPT	15.0	17.0	27	24.0	14
NTM-MHM-90C-0618-MC	S	PN 630	10	3/8"–18 NPT	12.0	17.5	28	25.0	17
NTM-MHM-90C-0620-MC	S	PN 630	12	3/8"–18 NPT	12.5	21.5	28	29.0	17
NTM-MHM-90C-0822-MC	S	PN 630	14	1/2"–14 NPT	18.0	22.0	34	30.0	19
NTM-MHM-90C-0824-MC	S	PN 400	16	1/2"–14 NPT	19.0	24.5	36	33.0	24
NTM-MHM-90C-1224-MC	S	PN 400	16	3/4"–14 NPT	20.0	24.5	40	33.0	24
NTM-MHM-90C-1230-MC	S	PN 400	20	3/4"–14 NPT	20.0	26.6	42	37.0	27
NTM-MHM-90C-1636-MC	S	PN 400	25	1"–11.5 NPT	24.0	30.0	48	42.0	36
NTM-MHM-90C-2042-MC	S	PN 400	30	1.1/4"–11.5 NPT	25.5	35.5	54	49.0	41
NTM-MHM-90C-2452-MC	S	PN 315	38	1.1/2"–11.5 NPT	26.0	41.0	61	57.0	50

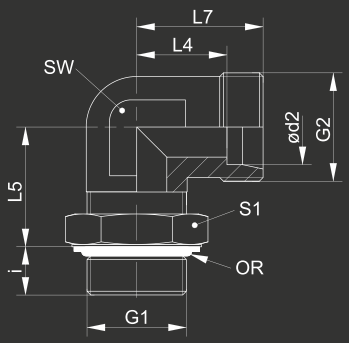
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Male / BSPP Male Positional 90

Screw-in fitting, angle 90°



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	O-ring and spacer diaphragm ring
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Adjustable direction screw-in fitting
Construction:	Angle 90°
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G1	G2	i mm	L4 mm	L5 mm	L7 mm	SW mm	S1	OR
BPP-MLLM-90C-0208-MC	LL	PN 250	4	G 1/8"–28	M 8 x 1	7.1	11.3	20	15	11	14	7.65 x 1.78
BPP-MLLM-90C-0210-MC	LL	PN 250	6	G 1/8"–28	M 10 x 1	7.1	11.3	20	15	11	14	7.65 x 1.78
BPP-MLM-90C-0212-MC	L	PN 315	6	G 1/8"–28	M 12 x 1.5	7.0	14.0	19	21	14	14	7.65 x 1.78
BPP-MLM-90C-0414-MC	L	PN 315	8	G 1/4"–19	M 14 x 1.5	9.0	16.0	23	23	14	19	10.78 x 2.62
BPP-MLM-90C-0416-MC	L	PN 315	10	G 1/4"–19	M 16 x 1.5	9.0	17.0	25	24	19	19	10.77 x 2.62
BPP-MLM-90C-0614-MC	L	PN 315	8	G 3/8"–19	M 14 x 1.5	9.0	16.0	23	23	19	22	13.94 x 2.62
BPP-MLM-90C-0618-MC	L	PN 250	12	G 3/8"–19	M 18 x 1.5	9.0	19.0	28	26	19	22	13.94 x 2.62
BPP-MLM-90C-0822-MC	L	PN 250	15	G 1/2"–14	M 22 x 1.5	13.0	21.0	30	28	22	27	17.86 x 2.62
BPP-MLM-90C-0826-MC	L	PN 250	18	G 1/2"–14	M 26 x 1.5	13.0	24.0	36	31	27	27	17.86 x 2.62
BPP-MLM-90C-1230-MC	L	PN 160	22	G 3/4"–14	M 30 x 2	13.0	28.0	36	35	30	36	23.47 x 2.62
BPP-MLM-90C-1636-MC	L	PN 160	28	G 1"–11	M 36 x 2	15.0	31.0	44	38	36	41	29.74 x 3.53
BPP-MLM-90C-2045-MC	L	PN 160	35	G 1.1/4"–11	M 45 x 2	15.0	38.0	50	48	50	50	37.69 x 3.53
BPP-MLM-90C-2452-MC	L	PN 160	42	G 1.1/2"–11	M 52 x 2	15.0	38.0	52	49	50	55	44.04 x 3.53
BPP-MHM-90C-0414-MC	S	PN 315	6	G 1/4"–19	M 14 x 1.5	9.0	15.0	23	22	14	19	10.77 x 2.62
BPP-MHM-90C-0416-MC	S	PN 315	8	G 1/4"–19	M 16 x 1.5	9.0	17.0	27	24	19	19	10.77 x 2.62
BPP-MHM-90C-0618-MC	S	PN 250	10	G 3/8"–19	M 18 x 1.5	9.0	18.0	29	25	19	22	13.94 x 2.62
BPP-MHM-90C-0620-MC	S	PN 250	12	G 3/8"–19	M 20 x 1.5	9.0	22.0	29	29	22	22	13.94 x 2.62
BPP-MHM-90C-0822-MC	S	PN 250	14	G 1/2"–14	M 22 x 1.5	13.0	25.0	36	33	27	27	18.00 x 3.00
BPP-MHM-90C-0824-MC	S	PN 250	16	G 1/2"–14	M 24 x 1.5	13.0	25.0	36	33	27	27	17.86 x 2.62
BPP-MHM-90C-1230-MC	S	PN 250	20	G 3/4"–14	M 30 x 2	12.0	28.0	39	38	30	36	23.47 x 2.62
BPP-MHM-90C-1636-MC	S	PN 250	25	G 1"–11	M 36 x 2	14.0	30.0	44	42	36	41	29.74 x 3.53
BPP-MHM-90C-2042-MC	S	PN 160	30	G 1.1/4"–11	M 42 x 2	15.0	36.0	49	49	50	50	37.69 x 3.53
BPP-MHM-90C-2452-MC	S	PN 160	38	G 1.1/2"–11	M 52 x 2	15.0	34.0	55	50	50	55	44.04 x 3.53

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

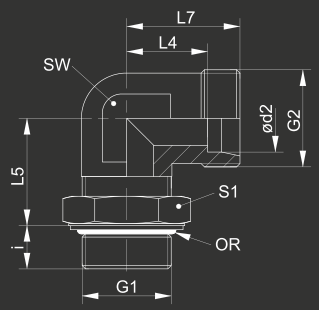
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Metric Male / Metric Stud Male Positional 90

Screw-in fitting, angle 90°



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	O-ring and spacer diaphragm ring
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Adjustable direction screw-in fitting
Construction:	L shaped
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G1	G2	i mm	L4 mm	L5 mm	L7 mm	SW mm	S1 mm	OR
MMP-MLM-90C-1012-MC	L	PN 315	6	M 10 x 1	M 12 x 1.5	7	14	20	21	14	13	8.1 x 1.6
MMP-MLM-90C-1214-MC	L	PN 315	8	M 12 x 1.5	M 14 x 1.5	10	16	22	23	14	17	9.3 x 2.4
MMP-MLM-90C-1416-MC	L	PN 315	10	M 14 x 1.5	M 16 x 1.5	10	17	24	24	19	17	11.3 x 2.4
MMP-MLM-90C-1618-MC	L	PN 315	12	M 16 x 1.5	M 18 x 1.5	10	19	25	26	19	19	13.3 x 2.4
MMP-MLM-90C-1822-MC	L	PN 315	15	M 18 x 1.5	M 22 x 1.5	11	21	31	28	22	22	15.3 x 2.4
MMP-MLM-90C-2226-MC	L	PN 250	18	M 22 x 1.5	M 26 x 1.5	12	24	33	31	27	27	19.3 x 2.4
MMP-MLM-90C-2630-MC	L	PN 160	22	M 26 x 1.5	M 30 x 2	14	28	36	35	30	32	23.5 x 2.6
MMP-MLM-90C-2730-MC	L	PN 160	22	M 27 x 2	M 30 x 2	14	28	36	35	30	32	23.6 x 2.9
MMP-MLM-90C-3336-MC	L	PN 160	28	M 33 x 2	M 36 x 2	14	31	39	38	36	38	29.5 x 3.0
MMP-MLM-90C-4242-MC	L	PN 160	35	M 42 x 2	M 42 x 2	14	38	49	48	50	50	38.0 x 3.0
MMP-MLM-90C-4852-MC	L	PN 160	42	M 48 x 2	M 52 x 2	16	38	50	49	50	55	44.5 x 3.0
MMP-MHM-90C-1214-MC	S	PN 315	6	M 12 x 1.5	M 14 x 1.5	10	15	22	22	14	17	9.3 x 2.4
MMP-MHM-90C-1416-MC	S	PN 315	8	M 14 x 1.5	M 16 x 1.5	10	17	26	24	19	17	11.3 x 2.4
MMP-MHM-90C-1618-MC	S	PN 315	10	M 16 x 1.5	M 18 x 1.5	11	18	27	25	19	19	13.3 x 2.4
MMP-MHM-90C-1820-MC	S	PN 315	12	M 18 x 1.5	M 20 x 1.5	12	22	31	29	22	22	15.3 x 2.4
MMP-MHM-90C-2022-MC	S	PN 250	14	M 20 x 1.5	M 22 x 1.5	14	25	36	33	27	27	17.3 x 2.4
MMP-MHM-90C-2224-MC	S	PN 250	16	M 22 x 1.5	M 24 x 1.5	14	25	36	33	27	27	19.3 x 2.4
MMP-MHM-90C-2730-MC	S	PN 250	20	M 27 x 2	M 30 x 2	16	28	39	38	30	32	23.6 x 2.9
MMP-MHM-90C-3336-MC	S	PN 160	25	M 33 x 2	M 36 x 2	16	30	44	42	36	38	29.5 x 3.0
MMP-MHM-90C-4242-MC	S	PN 160	30	M 42 x 2	M 42 x 2	17	36	51	49	50	50	38.0 x 3.0
MMP-MHM-90C-4852-MC	S	PN 160	38	M 48 x 2	M 52 x 2	19	34	54	50	50	55	44.5 x 3.0

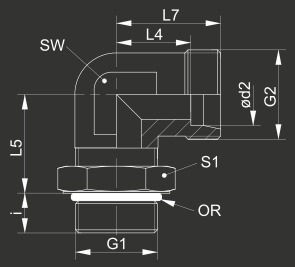
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Male / Un'O' Ring Male Positional 90

Screw-in fitting, angle 90°



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone
Design:	Adjustable direction screw-in fitting
Construction:	Angle 90°
Standard:	ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



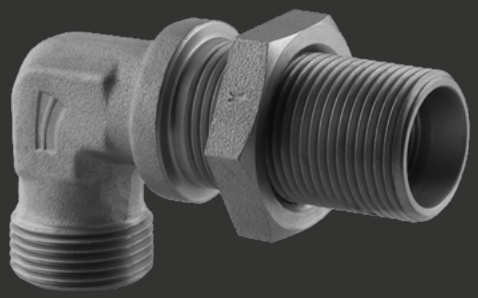
Identification	Series	Working pressure bar	Ø d2 mm	G1	G2	i mm	L4 mm	L5 mm	L7 mm	SW mm	S1 mm	OR
UNP-MLM-90C-0412-MC	L	PN 315	6	7/16"–20 UNF	M 12 x 1.5	10	14	19	21	14	14	8.92 x 1.83
UNP-MLM-90C-0414-MC	L	PN 315	8	7/16"–20 UNF	M 14 x 1.5	10	16	19	23	14	14	8.92 x 1.83
UNP-MLM-90C-0514-MC	L	PN 315	8	1/2"–20 UNF	M 14 x 1.5	10	16	19	24	14	17	10.52 x 1.83
UNP-MLM-90C-0614-MC	L	PN 315	8	9/16"–18 UNF	M 14 x 1.5	10	16	24	24	19	17	11.90 x 1.98
UNP-MLM-90C-0616-MC	L	PN 315	10	9/16"–18 UNF	M 16 x 1.5	10	17	24	24	19	17	11.90 x 1.98
UNP-MLM-90C-0618-MC	L	PN 315	12	9/16"–18 UNF	M 18 x 1.5	11	19	25	26	19	17	11.90 x 1.98
UNP-MLM-90C-0818-MC	L	PN 315	12	3/4"–16 UNF	M 18 x 1.5	13	19	25	26	19	22	16.36 x 2.20
UNP-MLM-90C-0822-MC	L	PN 315	15	3/4"–16 UNF	M 22 x 1.5	13	21	28	28	22	22	16.36 x 2.20
UNP-MLM-90C-1022-MC	L	PN 315	15	7/8"–14 UNF	M 22 x 1.5	15	21	28	28	22	27	19.18 x 2.46
UNP-MLM-90C-1026-MC	L	PN 315	18	7/8"–14 UNF	M 26 x 1.5	15	24	32	31	27	27	19.18 x 2.46
UNP-MLM-90C-1226-MC	L	PN 315	18	1.1/16"–12 UN	M 26 x 1.5	17	24	32	31	30	32	23.47 x 2.95
UNP-MLM-90C-1230-MC	L	PN 160	22	1.1/16"–12 UN	M 30 x 2	17	28	35	35	30	32	23.47 x 2.95
UNP-MLM-90C-1636-MC	L	PN 160	28	1.5/16"–12 UN	M 36 x 2	17	31	42	38	36	41	29.74 x 2.95
UNP-MLM-90C-2045-MC	L	PN 160	35	1.5/8"–12 UN	M 45 x 2	17	38	46	48	50	50	37.47 x 3.00
UNP-MLM-90C-2452-MC	L	PN 160	42	1.7/8"–12 UN	M 52 x 2	17	38	47	49	50	55	43.69 x 3.00
UNP-MHM-90C-0414-MC	S	PN 400	6	7/16"–20 UNF	M 14 x 1.5	12	15	20	22	14	14	8.92 x 1.83
UNP-MHM-90C-0516-MC	S	PN 400	8	1/2"–20 UNF	M 16 x 1.5	11	17	22	25	14	17	10.52 x 1.83
UNP-MHM-90C-0616-MC	S	PN 400	8	9/16"–18 UNF	M 16 x 1.5	12	17	25	24	19	17	11.90 x 1.98
UNP-MHM-90C-0618-MC	S	PN 400	10	9/16"–18 UNF	M 18 x 1.5	12	18	26	25	19	17	11.90 x 1.98
UNP-MHM-90C-0820-MC	S	PN 400	12	3/4"–16 UNF	M 20 x 1.5	14	22	30	29	22	22	16.36 x 2.20
UNP-MHM-90C-1022-MC	S	PN 400	14	7/8"–14 UNF	M 22 x 1.5	16	25	34	33	27	24	19.18 x 2.46
UNP-MHM-90C-1024-MC	S	PN 400	16	7/8"–14 UNF	M 24 x 1.5	16	25	34	33	27	27	19.18 x 2.46
UNP-MHM-90C-1230-MC	S	PN 400	20	1.1/16"–12 UN	M 30 x 2	19	28	37	38	30	32	23.47 x 2.95
UNP-MHM-90C-1236-MC	S	PN 400	25	1.1/16"–12 UN	M 36 x 2	19	30	50	42	36	32	23.47 x 2.95
UNP-MHM-90C-1636-MC	S	PN 400	25	1.5/16"–12 UN	M 36 x 2	19	33	50	45	41	36	29.74 x 2.95
UNP-MHM-90C-2042-MC	S	PN 250	30	1.5/8"–12 UN	M 42 x 2	19	36	50	49	50	50	37.47 x 3.00
UNP-MHM-90C-2452-MC	S	PN 250	38	1.7/8"–12 UN	M 52 x 2	19	34	51	50	50	55	43.69 x 3.00

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

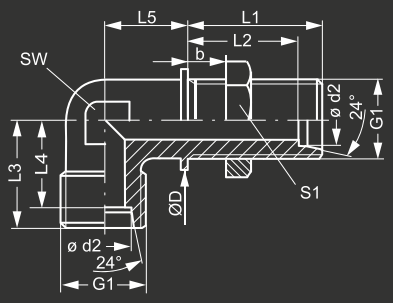
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Metric Male Bulkhead 90

Bulkhead fitting, angle 90



Connection 1 +2:	Metric cylindrical outer thread
Sealing form 1 +2:	24° inner cone
Design:	Bulkhead fitting
Construction:	Angle 90°
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™

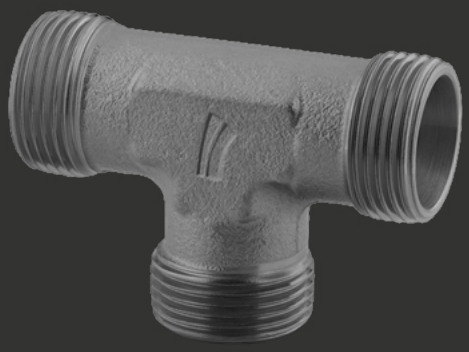


Identification	Series	Working pressure bar	Ø d2 mm	G1	Ø D mm	b mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	SW	S1
MLM-MLB-90C-1212-MC	L	PN 315	6	M 12 x 1.5	17	16	34	27.0	19	12.0	14	12	17
MLM-MLB-90C-1414-MC	L	PN 315	8	M 14 x 1.5	19	16	34	27.0	21	14.0	17	12	19
MLM-MLB-90C-1616-MC	L	PN 315	10	M 16 x 1.5	22	16	35	28.0	22	15.0	18	14	22
MLM-MLB-90C-1818-MC	L	PN 315	12	M 18 x 1.5	24	16	36	29.0	24	17.0	20	17	24
MLM-MLB-90C-2222-MC	L	PN 315	15	M 22 x 1.5	27	16	38	31.0	28	21.0	23	19	30
MLM-MLB-90C-2626-MC	L	PN 315	18	M 26 x 1.5	32	16	40	32.5	31	23.5	24	24	36
MLM-MLB-90C-3030-MC	L	PN 160	22	M 30 x 2	36	16	42	34.5	35	27.5	30	27	41
MLM-MLB-90C-3636-MC	L	PN 160	28	M 36 x 2	42	16	43	35.5	38	30.5	34	36	46
MLM-MLB-90C-4545-MC	L	PN 160	35	M 45 x 2	50	16	47	36.5	45	34.5	39	41	55
MLM-MLB-90C-5252-MC	L	PN 160	42	M 52 x 2	60	16	47	36.0	51	40.0	43	50	65
MHM-MHB-90C-1414-MC	S	PN 630	6	M 14 x 1.5	19	16	36	29.0	23	16.0	17	12	19
MHM-MHB-90C-1616-MC	S	PN 630	8	M 16 x 1.5	22	16	36	29.0	24	17.0	18	14	22
MHM-MHB-90C-1818-MC	S	PN 630	10	M 18 x 1.5	24	16	16	29.5	25	17.5	20	17	24
MHM-MHB-90C-2020-MC	S	PN 630	12	M 20 x 1.5	27	16	38	30.5	29	21.5	21	17	27
MHM-MHB-90C-2222-MC	S	PN 630	14	M 22 x 1.5	27	16	40	32.0	30	22.0	23	19	30
MHM-MHB-90C-2424-MC	S	PN 400	16	M 24 x 1.5	30	16	40	31.5	33	24.5	24	24	32
MHM-MHB-90C-3030-MC	S	PN 400	20	M 30 x 2	36	16	44	33.5	37	26.5	30	27	41
MHM-MHB-90C-3636-MC	S	PN 400	25	M 36 x 2	42	16	47	35.0	42	30.0	34	36	46
MHM-MHB-90C-4242-MC	S	PN 400	30	M 42 x 2	50	16	51	37.5	49	35.5	39	41	50
MHM-MHB-90C-5252-MC	S	PN 315	38	M 52 x 2	60	16	53	37.0	57	41.0	43	50	65

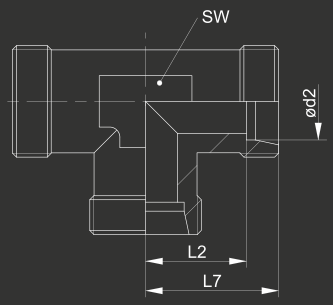
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Male Tee (T)

Fitting, T shaped



Connection 1 -3:	Metric cylindrical outer thread
Sealing form 1 -3:	24° inner cone
Design:	Fitting
Construction:	T shaped
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G1 - G3	L2 mm	L7 mm	SW mm
MLLM-MLLM-MLLM-080808-MC	LL	PN 100	4	M 8 x 1	11.0	15	9
MLLM-MLLM-MLLM-090909-MC	LL	PN 100	5	M 10 x 1	9.5	15	9
MLLM-MLLM-MLLM-101010-MC	LL	PN 100	6	M 10 x 1	9.5	15	9
MLLM-MLLM-MLLM-121212-MC	LL	PN 100	8	M 12 x 1	11.5	17	12
MLLM-MLLM-MLLM-141414-MC	LL	PN 100	10	M 14 x 1	12.5	18	12
MLLM-MLLM-MLLM-161616-MC	LL	PN 100	12	M 16 x 1	15.0	21	14
MLM-MLM-MLM-121212-MC	L	PN 315	6	M 12 x 1.5	12.0	19	12
MLM-MLM-MLM-141414-MC	L	PN 315	8	M 14 x 1.5	14.0	21	12
MLM-MLM-MLM-161616-MC	L	PN 315	10	M 16 x 1.5	15.0	22	14
MLM-MLM-MLM-181818-MC	L	PN 315	12	M 18 x 1.5	17.0	24	17
MLM-MLM-MLM-222222-MC	L	PN 315	15	M 22 x 1.5	21.0	28	19
MLM-MLM-MLM-262626-MC	L	PN 315	18	M 26 x 1.5	23.5	31	24
MLM-MLM-MLM-303030-MC	L	PN 160	22	M 30 x 2	27.5	35	27
MLM-MLM-MLM-363636-MC	L	PN 160	28	M 36 x 2	30.5	38	36
MLM-MLM-MLM-454545-MC	L	PN 160	35	M 45 x 2	34.5	45	41
MLM-MLM-MLM-525252-MC	L	PN 160	42	M 52 x 2	40.0	51	50
MHM-MHM-MHM-141414-MC	S	PN 630	6	M 14 x 1.5	16.0	23	12
MHM-MHM-MHM-161616-MC	S	PN 630	8	M 16 x 1.5	17.0	24	14
MHM-MHM-MHM-181818-MC	S	PN 630	10	M 18 x 1.5	17.5	25	17
MHM-MHM-MHM-202020-MC	S	PN 630	12	M 20 x 1.5	21.5	29	17
MHM-MHM-MHM-222222-MC	S	PN 630	14	M 22 x 1.5	22.0	30	19
MHM-MHM-MHM-242424-MC	S	PN 400	16	M 24 x 1.5	24.5	33	24
MHM-MHM-MHM-303030-MC	S	PN 400	20	M 30 x 2	26.5	37	27
MHM-MHM-MHM-363636-MC	S	PN 400	25	M 36 x 2	30.0	42	36
MHM-MHM-MHM-424242-MC	S	PN 400	30	M 42 x 2	35.5	49	41
MHM-MHM-MHM-525252-MC	S	PN 315	38	M 52 x 2	41.0	57	50

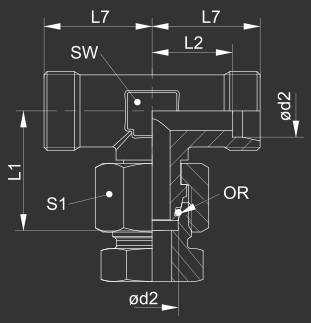
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Swivel Branch Tee (ET)

Fitting, T shaped



Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Connection 2 +3:	Metric cylindrical outer thread
Sealing form 2 +3:	24° inner cone
Design:	Adjustable direction fitting
Construction:	T shaped
Standard:	ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™

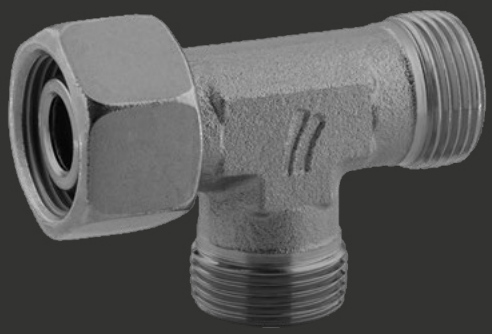


Identification	Series	Working pressure bar	Ø d2 mm	L1 mm	L2 mm	L7 mm	SW mm	S1 mm	OR
MLM-MLM-MLF-121212-MC	L	PN 315	6	26.0	12.0	19	12	14	4.0 x 1.5
MLM-MLM-MLF-141414-MC	L	PN 315	8	27.5	14.0	21	12	17	6.0 x 1.5
MLM-MLM-MLF-161616-MC	L	PN 315	10	29.0	15.0	22	14	19	7.5 x 1.5
MLM-MLM-MLF-181818-MC	L	PN 315	12	29.5	17.0	24	17	22	9.0 x 1.5
MLM-MLM-MLF-222222-MC	L	PN 315	15	33.0	21.0	28	19	27	12.0 x 2.0
MLM-MLM-MLF-262626-MC	L	PN 315	18	35.5	23.5	31	24	32	15.0 x 2.0
MLM-MLM-MLF-303030-MC	L	PN 160	22	39.5	27.5	35	27	36	20.0 x 2.0
MLM-MLM-MLF-363636-MC	L	PN 160	28	41.5	30.5	38	36	41	26.0 x 2.0
MLM-MLM-MLF-454545-MC	L	PN 160	35	51.0	34.5	45	41	50	32.0 x 2.5
MLM-MLM-MLF-525252-MC	L	PN 160	42	56.0	40.0	51	50	60	38.0 x 2.5
MHM-MHM-MHF-141414-MC	S	PN 630	6	27.0	16.0	23	12	17	4.0 x 1.5
MHM-MHM-MHF-161616-MC	S	PN 630	8	27.5	17.0	24	14	19	6.0 x 1.5
MHM-MHM-MHF-181818-MC	S	PN 630	10	30.0	17.5	25	17	22	7.5 x 1.5
MHM-MHM-MHF-202020-MC	S	PN 630	12	31.5	21.5	29	17	24	9.0 x 1.5
MHM-MHM-MHF-222222-MC	S	PN 630	14	35.0	22.0	30	19	27	10.0 x 2.0
MHM-MHM-MHF-242424-MC	S	PN 400	16	37.5	24.5	33	24	30	12.0 x 2.0
MHM-MHM-MHF-303030-MC	S	PN 400	20	44.5	26.5	37	27	36	16.3 x 2.4
MHM-MHM-MHF-363636-MC	S	PN 400	25	50.5	30.0	42	36	46	-
MHM-MHM-MHF-424242-MC	S	PN 400	30	55.0	35.5	49	41	50	25.3 x 2.4
MHM-MHM-MHF-525252-MC	S	PN 315	38	63.0	41.0	57	50	60	33.3 x 2.4

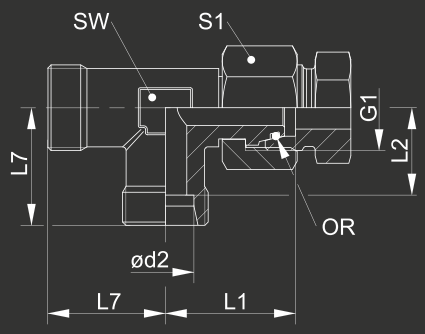
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Swivel Running Tee (EL)

Fitting, L shaped



Connection 1:	Metric nut thread
Sealing form 1:	24° outer cone with O-ring
Connection 2 +3:	Metric cylindrical outer thread
Sealing form 2 +3:	24° inner cone
Design:	Adjustable direction fitting
Construction:	L shaped
Standard:	ISO 8434-4
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G1	L1 mm	L2 mm	L7 mm	SW mm	S1 mm	OR
MLM-MLF-MLM-121212-MC	L	PN 315	6	M 12 x 1.5	26.0	12.0	19	12	14	4.0 x 1.5
MLM-MLF-MLM-141414-MC	L	PN 315	8	M 14 x 1.5	26.5	14.0	21	12	17	6.0 x 1.5
MLM-MLF-MLM-161616-MC	L	PN 315	10	M 16 x 1.5	29.0	15.0	22	14	19	7.5 x 1.5
MLM-MLF-MLM-181818-MC	L	PN 315	12	M 18 x 1.5	29.5	17.0	24	17	22	9.0 x 1.5
MLM-MLF-MLM-222222-MC	L	PN 315	15	M 22 x 1.5	32.5	21.0	28	19	27	12.0 x 2.0
MLM-MLF-MLM-262626-MC	L	PN 315	18	M 26 x 1.5	35.5	23.5	31	24	32	15.0 x 2.0
MLM-MLF-MLM-303030-MC	L	PN 160	22	M 30 x 2	38.5	27.5	35	27	36	20.0 x 2.0
MLM-MLF-MLM-363636-MC	L	PN 160	28	M 36 x 2	43.0	30.5	38	36	41	26.0 x 2.0
MLM-MLF-MLM-454545-MC	L	PN 160	35	M 45 x 2	51.5	34.5	45	41	50	32.0 x 2.5
MLM-MLF-MLM-525252-MC	L	PN 160	42	M 52 x 2	56.0	40.0	51	50	60	38.0 x 2.5
MHM-MHF-MHM-141414-MC	S	PN 630	6	M 14 x 1.5	27.0	16.0	23	12	17	4.0 x 1.5
MHM-MHF-MHM-161616-MC	S	PN 630	8	M 16 x 1.5	27.5	17.0	24	14	19	6.0 x 1.5
MHM-MHF-MHM-181818-MC	S	PN 630	10	M 18 x 1.5	30.5	17.5	25	17	22	7.5 x 1.5
MHM-MHF-MHM-202020-MC	S	PN 630	12	M 20 x 1.5	31.0	21.5	29	17	24	9.0 x 1.5
MHM-MHF-MHM-222222-MC	S	PN 630	14	M 22 x 1.5	35.0	22.0	30	19	27	10.0 x 2.0
MHM-MHF-MHM-242424-MC	S	PN 400	16	M 24 x 1.5	37.5	24.5	33	24	30	12.0 x 2.0
MHM-MHF-MHM-303030-MC	S	PN 400	20	M 30 x 2	44.5	26.5	37	27	36	16.3 x 2.4
MHM-MHF-MHM-363636-MC	S	PN 400	25	M 36 x 2	50.5	30.0	42	36	46	-
MHM-MHF-MHM-424242-MC	S	PN 400	30	M 42 x 2	55.0	35.5	49	41	50	25.3 x 2.4
MHM-MHF-MHM-525252-MC	S	PN 315	38	M 52 x 2	63.0	41.0	57	50	60	33.3 x 2.4

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø = External pipe diameter
Product Version: Stainless Steel (SS)

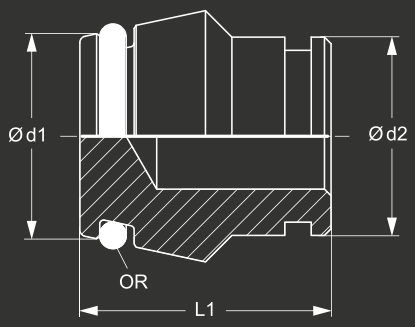
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Metric Plug Insert (BUZ)

Lock without union nut



Sealing form 1:	24° outer cone with O-ring
Design:	Lock without union nut
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d1 mm	Ø d2 mm	L1 mm	OR
MLF-12-MC	L	PN 315	6.6	6	18.5	4.0 x 1.5
MLF-14-MC	L	PN 315	8.5	8	18.0	6.0 x 1.5
MLF-16-MC	L	PN 315	10.6	10	19.5	7.5 x 1.5
MLF-18-MC	L	PN 315	12.6	12	19.0	9.0 x 1.5
MLF-22-MC	L	PN 315	15.5	15	19.0	12.0 x 2.0
MLF-26-MC	L	PN 315	18.6	18	22.0	15.0 x 2.0
MLF-30-MC	L	PN 160	22.6	22	22.0	20.0 x 2.0
MLF-36-MC	L	PN 160	28.5	28	23.5	26.0 x 2.0
MLF-45-MC	L	PN 160	36.0	35	27.0	32.0 x 2.5
MLF-52-MC	L	PN 160	43.0	42	27.5	38.0 x 2.5
MHF-22-MC	S	PN 630	14.5	14	21.0	10.0 x 2.0
MHF-24-MC	S	PN 400	16.5	16	22.0	12.0 x 2.0
MHF-30-MC	S	PN 400	20.9	20	26.5	16.3 x 2.4
MHF-36-MC	S	PN 400	25.9	25	27.5	20.3 x 2.4
MHF-45-MC	S	PN 400	31.0	30	28.5	25.3 x 2.4
MHF-52-MC	S	PN 315	39.0	38	32.5	33.3 x 2.4

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Male Plug (with Sealing Face)

Blanking socket



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	24° inner cone
Design:	Blanking socket
Construction:	Straight
Standard:	DIN 2353, ISO 8434-1
Included in scope of supply:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™

Identification	Series	Working pressure bar	Ø d2 mm	G1	L1 mm	L2 mm	L3 mm	SW mm
MLLM-08-MC	LL	PN 100	4	M 8 x 1	12	8.0	4.0	9
MLLM-09-MC	LL	PN 100	5	M 10 x 1	12	8.0	5.5	11
MLLM-10-MC	LL	PN 100	6	M 10 x 1	12	8.0	5.5	11
MLLM-12-MC	LL	PN 100	8	M 12 x 1	14	9.0	5.5	12
MLM-12-MC	L	PN 315	6	M 12 x 1.5	14	10.0	7.0	12
MLM-14-MC	L	PN 315	8	M 14 x 1.5	15	10.0	7.0	14
MLM-16-MC	L	PN 315	10	M 16 x 1.5	16	11.0	7.0	17
MLM-18-MC	L	PN 315	12	M 18 x 1.5	17	11.0	7.0	19
MLM-22-MC	L	PN 315	15	M 22 x 1.5	18	12.0	7.0	24
MLM-26-MC	L	PN 315	18	M 26 x 1.5	19	12.0	7.5	27
MLM-30-MC	L	PN 160	22	M 30 x 2	21	14.0	7.5	32
MLM-36-MC	L	PN 160	28	M 36 x 2	22	14.0	7.5	41
MLM-45-MC	L	PN 160	35	M 45 x 2	25	16.0	10.5	46
MLM-52-MC	L	PN 160	42	M 52 x 2	27	16.0	11.0	55
MHM-14-MC	S	PN 630	6	M 14 x 1.5	18	12.0	7.0	14
MHM-16-MC	S	PN 630	8	M 16 x 1.5	20	12.0	7.0	17
MHM-18-MC	S	PN 630	10	M 18 x 1.5	20	12.0	7.5	19
MHM-20-MC	S	PN 630	12	M 20 x 1.5	22	12.0	7.5	22
MHM-22-MC	S	PN 630	14	M 22 x 1.5	24	14.0	8.0	24
MHM-24-MC	S	PN 400	16	M 24 x 1.5	24	14.0	8.5	27
MHM-30-MC	S	PN 400	20	M 30 x 2	28	16.0	10.5	32
MHM-36-MC	S	PN 400	25	M 36 x 2	32	18.0	12.0	41
MHM-42-MC	S	PN 400	30	M 42 x 2	36	20.0	13.5	46
MHM-52-MC	S	PN 315	38	M 52 x 2	39	22.0	16.0	55

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

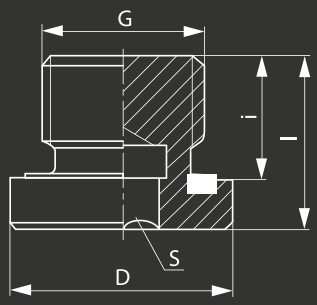
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Metric In Hex Plug (Captive Seal)

Blanking screw with hexagon socket



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Shape E
Design:	Blanking screw with hexagon socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	Working pressure bar	G	D mm	i mm	l mm	S mm
IHPM-ED-0810-MC	PN 400	M 8 x 1	12.0	8	12.0	4
IHPM-ED-1010-MC	PN 400	M 10 x 1	14.0	8	12.0	5
IHPM-ED-1215-MC	PN 400	M 12 x 1.5	17.0	12	17.0	6
IHPM-ED-1415-MC	PN 400	M 14 x 1.5	19.0	12	17.0	6
IHPM-ED-1615-MC	PN 400	M 16 x 1.5	22.0	12	17.0	8
IHPM-ED-1815-MC	PN 400	M 18 x 1.5	24.0	12	17.0	8
IHPM-ED-2015-MC	PN 400	M 20 x 1.5	26.0	14	19.0	10
IHPM-ED-2215-MC	PN 400	M 22 x 1.5	27.0	14	19.0	10
IHPM-ED-2415-MC	PN 400	M 24 x 1.5	29.9	14	19.0	12
IHPM-ED-2615-MC	PN 400	M 26 x 1.5	32.0	16	21.0	12
IHPM-ED-2720-MC	PN 400	M 27 x 2	32.0	16	21.0	12
IHPM-ED-3320-MC	PN 400	M 33 x 2	40.0	16	22.5	17
IHPM-ED-4220-MC	PN 315	M 42 x 2	50.0	16	22.5	22
IHPM-ED-4820-MC	PN 315	M 48 x 2	55.0	16	22.5	24

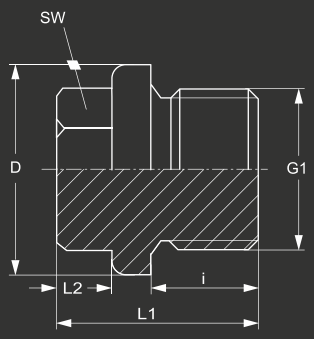
PN = Nominal pressure PB = Max. operating pressure
Product Version: Stainless Steel (SS)

Metric Hex Plug

Blanking screw with hexagon head



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Shape A
Design:	Blanking screws, with hexagon socket
Construction:	Straight
Standard:	DIN 910
Material:	Steel
Surface:	MotusCoat™



Identification	G1	i mm	D mm	L1 mm	L2 mm	SW mm
MSM-0810-MC	M 8 x 1	8	14	17	6	10
MSM-1010-MC	M 10 x 1	8	14	17	6	10
MSM-1215-MC	M 12 x 1.5	12	17	21	6	13
MSM-1415-MC	M 14 x 1.5	12	19	21	6	13
MSM-1615-MC	M 16 x 1.5	12	19	21	6	13
MSM-1815-MC	M 18 x 1.5	12	23	24	8	17
MSM-2015-MC	M 20 x 1.5	14	25	26	8	19
MSM-2215-MC	M 22 x 1.5	14	27	26	8	19
MSM-2415-MC	M 24 x 1.5	14	29	27	9	22
MSM-2615-MC	M 26 x 1.5	16	31	30	10	24
MSM-3015-MC	M 30 x 1.5	16	36	30	10	24
MSM-3815-MC	M 38 x 1.5	16	44	32	11	27
MSM-4515-MC	M 45 x 1.5	16	49	33	12	30
MSM-5215-MC	M 52 x 1.5	16	60	33	12	30

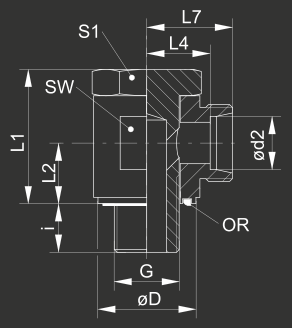
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Metric Male / BSP Banjo Male 90

Banjo fitting, throttle free, angle 90°



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Shape F (Sealing by O-ring and retaining ring)
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone (CEL / CES)
Design:	Banjo coupling, throttle free
Construction:	Angle 90°
Standard:	DIN 2353, ISO 8434-1
Included in scope:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Working pressure bar	Ø d2 mm	G	Ø D mm	i mm	L1 mm	L2 mm	L4 mm	L7 mm	SW	S1	OR mm
BBJ-MLLM-90C-0208-MC	LL	PN 100	4	G 1/8"–28	14.5	8.0	23.5	10.5	14.0	18.0	17	17	7.65 x 1.78
BBJ-MLLM-90C-0210-MC	LL	PN 100	6	G 1/8"–28	14.5	8.0	23.5	10.5	13.5	19.0	17	17	7.65 x 1.78
BBJ-MLLM-90C-0212-MC	LL	PN 100	8	G 1/8"–28	14.5	8.0	23.5	10.5	13.5	19.0	17	17	7.65 x 1.78
BBJ-MLM-90C-0212-MC	L	PN 315	6	G 1/8"–28	14.5	8.0	23.5	10.5	12.0	19.0	17	17	7.65 x 1.78
BBJ-MLM-90C-0414-MC	L	PN 315	8	G 1/4"–19	19.0	13.0	29.0	14.0	14.5	21.5	22	19	11.10 x 1.78
BBJ-MLM-90C-0416-MC	L	PN 315	10	G 1/4"–19	19.0	12.5	29.0	14.0	15.5	22.5	22	19	11.10 x 1.78
BBJ-MLM-90C-0418-MC	L	PN 315	12	G 1/4"–19	19.0	12.0	34.0	16.5	18.0	25.0	27	19	11.10 x 1.78
BBJ-MLM-90C-0618-MC	L	PN 315	12	G 3/8"–19	22.5	12.0	35.0	16.5	18.0	25.0	27	24	14.00 x 1.78
BBJ-MLM-90C-0818-MC	L	PN 315	12	G 1/2"–14	27.0	14.0	46.0	21.5	20.5	27.5	32	27	18.77 x 1.78
BBJ-MLM-90C-0822-MC	L	PN 315	15	G 1/2"–14	27.0	12.0	46.0	21.5	21.5	28.5	32	27	18.77 x 1.78
BBJ-MLM-90C-0826-MC	L	PN 315	18	G 1/2"–14	27.0	14.0	46.0	21.5	21.0	28.5	32	27	18.77 x 1.78
BBJ-MLM-90C-1230-MC	L	PN 160	22	G 3/4"–14	32.5	16.0	52.0	24.0	27.5	35.0	41	36	23.81 x 2.62
BBJ-MLM-90C-1636-MC	L	PN 160	28	G 1"–11	40.0	18.0	64.0	30.5	32.0	39.5	50	46	29.82 x 2.62
BBJ-MLM-90C-2045-MC	L	PN 160	35	G 1.1/4"–11	50.0	20.0	75.0	35.5	36.0	46.5	60	50	37.77 x 2.62
BBJ-MLM-90C-2452-MC	L	PN 160	42	G 1.1/2"–11	55.5	22.0	74.0	40.5	40.5	51.5	70	60	41.28 x 3.53
BBJ-MHM-90C-0414-MC	S	PN 400	6	G 1/4"–19	19.0	13.0	29.0	14.0	16.5	23.5	22	19	11.10 x 1.78
BBJ-MHM-90C-0416-MC	S	PN 400	8	G 1/4"–19	19.0	13.0	29.0	14.0	16.5	23.5	22	19	11.10 x 1.78
BBJ-MHM-90C-0616-MC	S	PN 400	10	G 3/8"–19	22.5	12.0	35.5	16.5	18.5	26.0	27	24	14.00 x 1.78
BBJ-MHM-90C-0618-MC	S	PN 400	12	G 3/8"–19	22.5	12.0	35.0	16.5	18.5	26.0	27	24	14.00 x 1.78
BBJ-MHM-90C-0820-MC	S	PN 400	14	G 1/2"–14	27.0	12.0	46.0	21.5	22.5	30.5	30	27	18.77 x 1.78
BBJ-MHM-90C-0824-MC	S	PN 315	16	G 1/2"–14	27.0	14.0	46.0	21.5	22.0	30.5	30	27	18.77 x 1.78
BBJ-MHM-90C-1230-MC	S	PN 315	20	G 3/4"–14	32.5	16.0	52.0	24.0	26.5	37.0	41	36	23.81 x 2.62
BBJ-MHM-90C-1636-MC	S	PN 250	25	G 1"–11	40.0	19.0	63.0	30.5	31.5	43.5	50	46	29.82 x 2.62
BBJ-MHM-90C-2042-MC	S	PN 160	30	G 1.1/4"–11	50.0	20.0	75.0	35.5	37.0	50.5	60	50	37.77 x 2.62
BBJ-MHM-90C-2452-MC	S	PN 160	38	G 1.1/2"–11	55.5	22.0	74.0	40.5	41.5	57.5	70	60	41.28 x 3.53

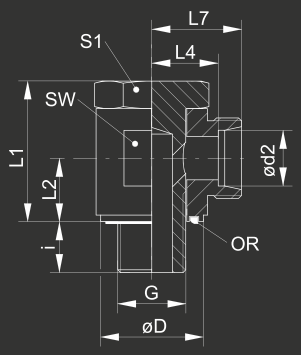
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Male Metric / Metric Banjo Male 90

Banjo fitting, throttle free, angle 90°



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Shape F (Sealing by O-ring and retaining ring)
Connection 2:	Metric cylindrical outer thread
Sealing form 2:	24° inner cone (CEL / CES)
Design:	Banjo coupling, throttle free
Construction:	Angle 90°
Standard:	DIN 2353, ISO 8434-1
Included in scope:	Socket (without union nut and cutting ring)
Material:	Steel
Surface:	MotusCoat™

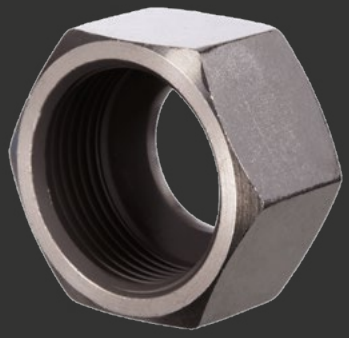


Identification	Series	Working pressure bar	Ø d2 mm	G	Ø D mm	i mm	L1 mm	L2 mm	L4 mm	L7 mm	SW	S1	OR mm
MBJ-MLLM-90C-1010-MC	LL	PN 100	6	M 10 x 1	14.5	8.0	23.5	10.5	13.5	19.0	17	17	7.65 x 1.78
MBJ-MLLM-90C-1012-MC	LL	PN 100	8	M 10 x 1	14.5	8.0	23.5	10.5	13.5	19.0	17	17	7.65 x 1.78
MBJ-MLM-90C-1012-MC	L	PN 315	6	M 10 x 1	14.5	8.0	23.5	10.5	12.0	19.0	17	17	7.65 x 1.78
MBJ-MLM-90C-1214-MC	L	PN 315	8	M 12 x 1.5	17.5	12.5	29.5	14.0	14.5	21.5	22	19	11.10 x 1.78
MBJ-MLM-90C-1416-MC	L	PN 315	10	M 14 x 1.5	18.5	12.0	30.0	14.0	15.5	22.5	22	19	11.10 x 1.78
MBJ-MLM-90C-1618-MC	L	PN 315	12	M 16 x 1.5	22.5	12.0	35.0	16.5	18.0	25.0	27	24	14.00 x 1.78
MBJ-MLM-90C-1818-MC	L	PN 315	12	M 18 x 1.5	23.5	12.0	35.0	16.5	18.0	25.0	27	24	18.77 x 1.78
MBJ-MLM-90C-1822-MC	L	PN 315	15	M 18 x 1.5	23.5	12.0	46.0	21.5	21.5	28.5	32	27	18.77 x 1.78
MBJ-MLM-90C-2226-MC	L	PN 315	18	M 22 x 1.5	27.5	12.0	46.5	21.5	21.0	28.5	32	27	18.77 x 1.78
MBJ-MLM-90C-2630-MC	L	PN 160	22	M 26 x 1.5	32.5	16.0	52.0	24.0	27.5	35.0	41	36	23.81 x 2.62
MBJ-MLM-90C-3336-MC	L	PN 160	28	M 33 x 2	39.5	18.0	64.0	30.5	32.0	39.5	50	46	29.82 x 2.62
MBJ-MLM-90C-4242-MC	L	PN 160	35	M 42 x 2	49.5	20.0	75.0	35.5	36.0	46.5	60	50	37.77 x 2.62
MBJ-MLM-90C-4852-MC	L	PN 160	42	M 48 x 2	55.5	22.0	88.0	40.5	40.5	51.5	70	60	41.28 x 3.53
MBJ-MHM-90C-1214-MC	S	PN 400	6	M 12 x 1.5	17.5	12.0	30.0	14.0	16.5	23.5	22	19	11.10 x 1.78
MBJ-MHM-90C-1416-MC	S	PN 400	8	M 14 x 1.5	18.5	12.0	30.0	14.0	16.5	23.5	22	19	11.10 x 1.78
MBJ-MHM-90C-1618-MC	S	PN 400	10	M 16 x 1.5	22.5	12.0	35.0	16.5	18.5	26.0	27	24	14.00 x 1.78
MBJ-MHM-90C-1820-MC	S	PN 400	12	M 18 x 1.5	23.5	12.0	35.0	16.5	18.5	26.0	27	27	18.77 x 1.78
MBJ-MHM-90C-2022-MC	S	PN 400	14	M 20 x 1.5	25.5	14.0	46.0	21.5	22.5	30.5	30	27	18.77 x 1.78
MBJ-MHM-90C-2224-MC	S	PN 315	16	M 22 x 1.5	27.5	14.0	46.0	21.5	22.0	30.5	30	27	18.77 x 1.78
MBJ-MHM-90C-2730-MC	S	PN 315	20	M 27 x 2	32.5	16.0	52.0	24.0	26.5	37.0	41	36	23.81 x 2.62
MBJ-MHM-90C-3336-MC	S	PN 250	25	M 33 x 2	39.5	18.0	64.0	30.5	31.5	43.5	50	46	29.82 x 2.62
MBJ-MHM-90C-4242-MC	S	PN 160	30	M 42 x 2	49.5	20.0	75.0	35.5	37.0	50.5	60	50	37.77 x 2.62
MBJ-MHM-90C-4852-MC	S	PN 160	38	M 48 x 2	55.5	23.0	87.0	40.5	41.5	57.5	70	60	41.28 x 3.53

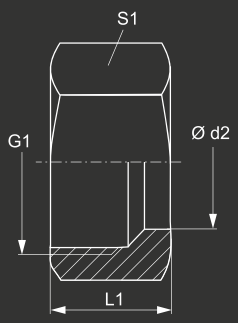
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Union Nut (M)

Union nut



Connection 1:	Metric nut thread
Design:	Union nut
Standard:	DIN 3870
Material:	Steel
Surface:	MotusCoat™



Identification	Series	Ø d2 mm	G1	L1 mm	S1
MLLN-08-MC	LL	4.0	M 8 x 1	11.5	10
MLLN-09-MC	LL	5.0	M 10 x 1	12.0	12
MLLN-10-MC	LL	6.0	M 10 x 1	12.0	12
MLLN-12-MC	LL	8.0	M 12 x 1	12.5	14
MLLN-14-MC	LL	10.0	M 14 x 1	13.5	17
MLLN-16-MC	LL	12.0	M 16 x 1	13.5	19
MLLN-22-MC	LL	16.0	M 22 x 1.5	17.5	27
MLN-12-MC	L	6.0	M 12 x 1.5	15.0	14
MLN-14-MC	L	8.0	M 14 x 1.5	15.0	17
MLN-16-MC	L	10.0	M 16 x 1.5	16.0	19
MLN-18-MC	L	12.0	M 18 x 1.5	16.0	22
MLN-22-MC	L	15.0	M 22 x 1.5	17.5	27
MLN-26-MC	L	18.0	M 26 x 1.5	18.5	32
MLN-27-MC	L	18.0	M 27 x 2	18.0	32
MLN-30-MC	L	22.0	M 30 x 2	20.5	36
MLN-36-MC	L	28.0	M 36 x 2	21.5	41
MLN-45-MC	L	35.3	M 45 x 2	24.5	50
MLN-52-MC	L	42.0	M 52 x 2	24.5	60
MHN-14-MC	S	6.0	M 14 x 1.5	17.0	17
MHN-16-MC	S	8.0	M 16 x 1.5	17.0	19
MHN-18-MC	S	10.0	M 18 x 1.5	18.0	22
MHN-20-MC	S	12.0	M 20 x 1.5	18.0	24
MHN-22-MC	S	14.0	M 22 x 1.5	21.0	27
MHN-24-MC	S	16.0	M 24 x 1.5	21.0	30
MHN-30-MC	S	20.0	M 30 x 2	24.5	36
MHN-36-MC	S	25.0	M 36 x 2	27.5	46
MHN-42-MC	S	30.0	M 42 x 2	29.5	50
MHN-52-MC	S	38.0	M 52 x 2	33.0	60

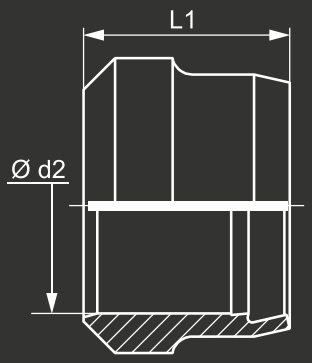
Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

Metric Cutting Ring

Cutting ring



Design:	Cutting ring
Standard:	DIN 3861 shape B
Material:	Steel
Surface:	MotusCoat™



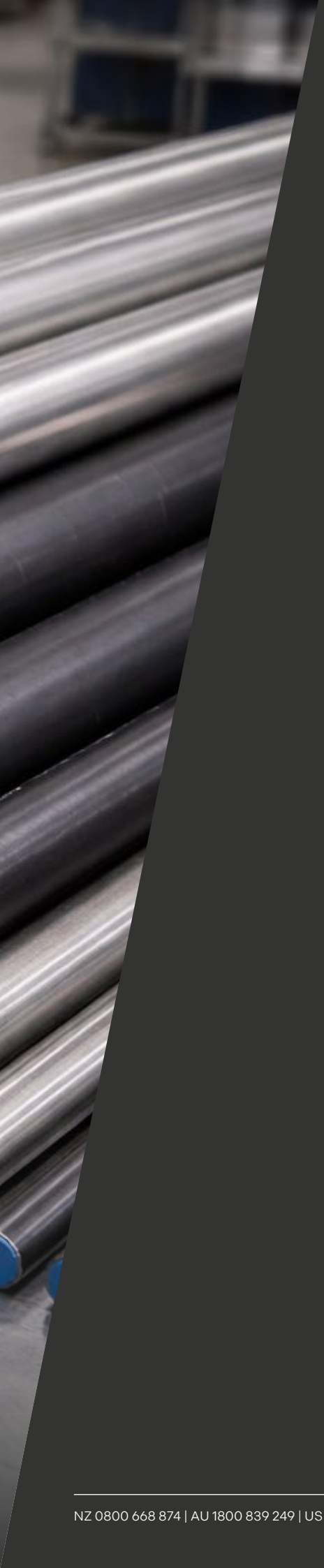
Identification	Series	Ø d2 mm	L1 mm
MCS-04LL-MC	LL	4	6.0
MCS-05LL-MC	LL	5	7.0
MCS-06LL-MC	LL	6	7.0
MCS-08LL-MC	LL	8	7.0
MCS-10LL-MC	LL	10	7.0
MCS-12LL-MC	LL	12	7.5
MCS-16LL-MC	LL	16	9.0
MCS-06L/S-MC	L / S	6	9.5
MCS-08L/S-MC	L / S	8	9.5
MCS-10L/S-MC	L / S	10	10.0
MCS-12L/S-MC	L / S	12	10.0
MCS-14S-MC	S	14	10.0
MCS-15L-MC	L	15	10.0
MCS-16S-MC	S	16	10.5
MCS-18L-MC	L	18	10.0
MCS-20S-MS	S	20	12.5
MCS-22L-MC	L	22	10.5
MCS-25S-MC	S	25	12.5
MCS-28L-MC	L	28	10.5
MCS-30S-MC	S	30	13.0
MCS-35L-MC	L	35	13.0
MCS-38S-MC	S	38	13.5
MCS-42L-MC	L	42	13.0
MCS-65L-MC	L	65	21.2

Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø d2 = External pipe diameter
Product Version: Stainless Steel (SS)

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04





HYDRAULIC STEEL TUBE

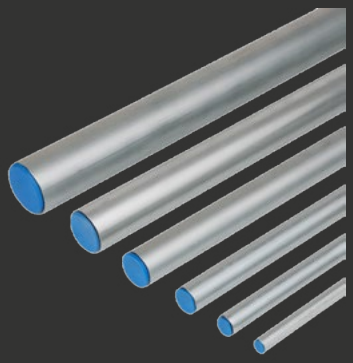
Hydraulic steel tube is used for rigid fluid conveyance in high-pressure systems. Manufactured to precise dimensional tolerances, these tubes provide structural integrity and consistent internal flow characteristics.

This section covers seamless precision steel tube suitable for hydraulic circuits in industrial machinery, agricultural equipment, transport systems, and fixed installations where durability and pressure stability are essential.

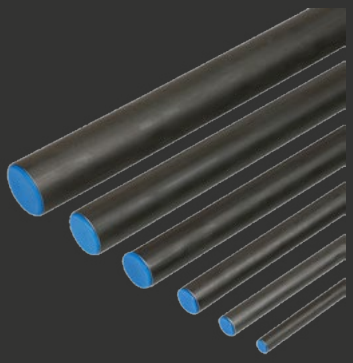
Compatible with components finished in MotusCoat™ for long-term system protection.

HYDRAULIC STEEL TUBE

Metric Steel Tube - Electro Galvanised
220

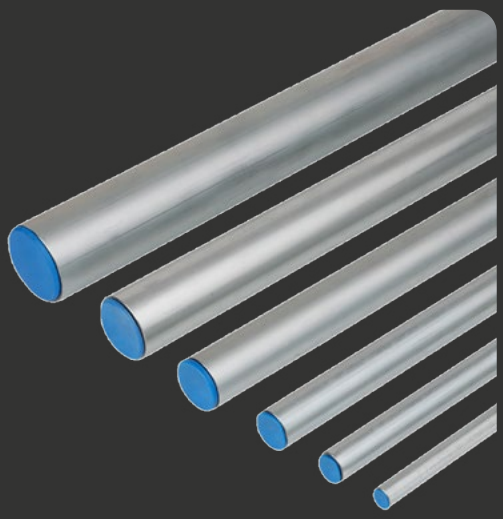


Metric Steel Tube- Phosphate treated and oiled
222

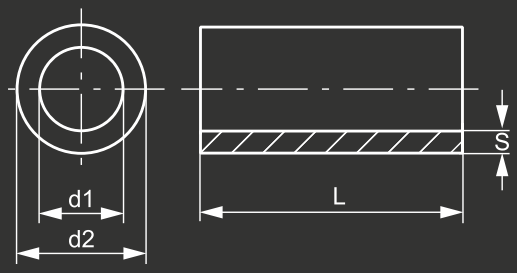


Metric Steel Tube - Electro Galvanised

Metric precision steel pipe, EN 10305-4, E235+N



Design:	Precision steel pipe, metric
Standard:	DIN EN 10305-4
Material:	Steel ST 37.4 NBK (1.0255)
Surface:	Electro galvanised
Pipe length:	6 metres



Note: The pressure figures are based on Straight pipes. The appropriate wall thickness needs to be calculated for pipes with bends as stipulated in DIN EN 13480-4.

Identification	Ø d2 mm	AD tolerance + / - mm	Ø d1 mm	ID tolerance + / - mm	S mm	Specific load I bar	Specific load III bar
TUB-M04-1.0-EG	4.0	0.08	2.0	0.15	1.00	602	484
TUB-M05-0.75-EG	5.0	0.08	2.5	0.15	0.75	325	282
TUB-M05-1.0-EG	5.0	0.08	3.0	0.15	1.00	482	400
TUB-M06-0.75-EG	6.0	0.08	4.5	0.15	0.75	286	251
TUB-M06-1.0-EG	6.0	0.08	4.0	0.12	1.00	416	352
TUB-M06-1.5-EG	6.0	0.08	3.0	0.15	1.50	663	524
TUB-M06-2.0-EG	6.0	0.08	2.0	0.15	2.00	924	683
TUB-M08-1.0-EG	8.0	0.08	6.0	0.10	1.00	320	278
TUB-M08-1.5-EG	8.0	0.08	5.0	0.10	1.50	516	424
TUB-M08-2.0-EG	8.0	0.08	4.0	0.15	2.00	693	543
TUB-M10-1.0-EG	10.0	0.08	8.0	0.08	1.00	263	232
TUB-M10-1.5-EG	10.0	0.08	7.0	0.12	1.50	407	345
TUB-M10-2.0-EG	10.0	0.08	6.0	0.15	2.00	554	451
TUB-M10-2.5-EG	10.0	0.08	5.0	0.15	2.50	711	555
TUB-M12-1.0-EG	12.0	0.08	10.0	0.08	1.00	219	196
TUB-M12-1.5-EG	12.0	0.08	9.0	0.10	1.50	344	297
TUB-M12-2.0-EG	12.0	0.08	8.0	0.12	2.00	469	391
TUB-M12-2.5-EG	12.0	0.08	7.0	0.15	2.50	592	477
TUB-M14-1.5-EG	14.0	0.08	11.0	0.08	1.50	299	262
TUB-M14-2.0-EG	14.0	0.08	10.0	0.10	2.00	407	345
TUB-M14-2.5-EG	14.0	0.08	9.0	0.12	2.50	514	423
TUB-M15-1.0-EG	15.0	0.08	13.0	0.08	1.00	175	159
TUB-M15-1.5-EG	15.0	0.08	12.0	0.08	1.50	279	246
TUB-M15-2.0-EG	15.0	0.08	11.0	0.10	2.00	380	324
TUB-M15-2.5-EG	15.0	0.08	10.0	0.08	2.50	480	398
TUB-M16-1.5-EG	16.0	0.08	13.0	0.08	1.50	262	231
TUB-M16-2.0-EG	16.0	0.08	12.0	0.15	2.00	346	298
TUB-M16-2.5-EG	16.0	0.08	11.0	0.12	2.50	450	377

Metric Steel Tube - Electro Galvanised

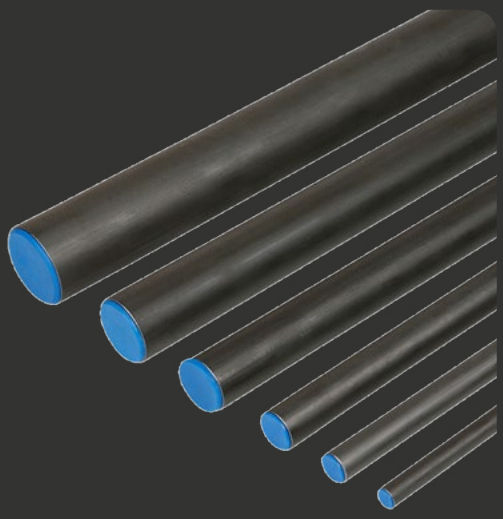
Metric precision steel pipe, EN 10305-4, E235+N

Identification	Ø d2 mm	AD tolerance + / - mm	Ø d1 mm	ID tolerance + / - mm	S mm	Specific load I bar	Specific load III bar
TUB-M18-1.0-EG	18.0	0.08	16.0	0.08	1.00	146	133
TUB-M18-1.5-EG	18.0	0.08	15.0	0.08	1.50	233	207
TUB-M18-2.0-EG	18.0	-	14.0	0.08	2.00	320	278
TUB-M18-2.5-EG	18.0	0.08	13.0	0.15	2.50	395	335
TUB-M20-1.5-EG	20.0	0.08	17.0	0.08	1.50	209	188
TUB-M20-2.0-EG	20.0	0.08	16.0	0.08	2.00	288	252
TUB-M20-2.5-EG	20.0	0.08	15.0	0.15	2.50	355	305
TUB-M20-3.0-EG	20.0	0.08	14.0	0.15	3.00	433	364
TUB-M20-3.5-EG	20.0	0.08	13.0	0.08	3.50	512	421
TUB-M22-1.5-EG	22.0	0.08	19.0	0.08	1.50	190	172
TUB-M22-2.0-EG	22.0	0.08	18.0	0.08	2.00	262	231
TUB-M22-2.5-EG	22.0	0.08	17.0	0.08	2.50	333	288
TUB-M25-1.5-EG	25.0	0.08	22.0	0.08	1.50	167	152
TUB-M25-2.0-EG	25.0	0.08	21.0	0.08	2.00	230	205
TUB-M25-2.5-EG	25.0	0.08	20.0	0.08	2.50	293	256
TUB-M25-3.0-EG	25.0	0.08	19.0	0.15	3.00	347	299
TUB-M25-3.5-EG	25.0	-	18.0	-	3.50	-	-
TUB-M24-4.0-EG	25.0	0.08	17.0	0.15	4.00	472	393
TUB-M28-1.5-EG	28.0	0.08	25.0	0.08	1.50	149	136
TUB-M28-2.0-EG	28.0	0.08	24.0	0.08	2.00	205	184
TUB-M28-2.5-EG	28.0	0.08	23.0	0.08	2.50	261	231
TUB-M28-3.0-EG	28.0	0.08	22.0	0.15	3.00	309	270
TUB-M30-2.5-EG	30.0	0.08	25.0	0.08	2.50	244	217
TUB-M30-3.0-EG	30.0	0.08	24.0	0.15	3.00	289	253
TUB-M30-4.0-EG	30.0	0.08	22.0	0.15	4.00	393	334
TUB-M30-5.0-EG	30.0	0.08	20.0	0.15	5.00	498	411
TUB-M35-1.5-EG	35.0	0.08	32.0	0.08	1.50	119	110
TUB-M35-2.0-EG	35.0	0.15	31.0	0.15	2.00	152	138
TUB-M35-3.0-EG	35.0	0.15	29.0	0.15	3.00	241	214
TUB-M35-4.0-EG	35.0	0.15	27.0	0.15	4.00	331	286
TUB-M38-2.0-EG	38.0	0.15	34.0	0.15	2.00	140	128
TUB-M38-2.5-EG	38.0	0.15	23.0	0.15	2.50	181	163
TUB-M38-3.0-EG	38.0	0.15	32.0	0.15	3.00	222	198
TUB-M38-4.0-EG	38.0	0.15	30.0	0.15	4.00	305	266
TUB-M38-5.0-EG	38.0	0.15	28.0	0.15	5.00	387	330
TUB-M38-6.0-EG	38.0	0.15	26.0	0.15	6.00	469	391
TUB-M42-2.0-EG	42.0	0.20	38.0	0.20	2.00	119	109
TUB-M42-3.0-EG	42.0	0.20	36.0	0.20	3.00	193	174

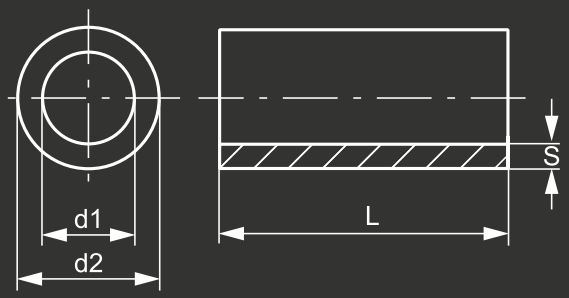
Additional info:
Specific load I: static (up to 100 °C)
Specific load III: dynamic (up to 200 °C) stress range = P bar Strength parameter: K
235 [N / mm2]
Safety coefficient: S 1.5
Fatigue strength: Sch / D 225 [N / mm2]
Tolerance: DIN 10305-4

Metric Steel Tube- Phosphate treated and oiled

Metric precision steel pipe, EN 10305-4, E235+N



Design:	Precision steel pipe, metric
Standard:	DIN EN 10305-4
Material:	Steel ST 37.4 NBK (1.0255)
Surface:	Phosphate treated and oiled
Pipe length:	6 metres



Note: The pressure figures are based on Straight pipes. The appropriate wall thickness needs to be calculated for pipes with bends as stipulated in DIN EN 13480-4.

Identification	Ø d2 mm	AD tolerance + / - mm	Ø d1 mm	ID tolerance + / - mm	Smm	Specific load I bar	Specific load III bar
TUB-M04-0.5	4.0	0.08	3.0	0.15	0.50	210	189
TUB-M04-0.75	4.0	0.08	2.5	0.15	0.75	405	345
TUB-M04-1.0	4.0	0.08	2.0	0.15	1.00	602	484
TUB-M05-0.75	5.0	0.08	3.5	0.15	0.75	325	282
TUB-M05-1.0	5.0	0.08	3.0	0.15	1.00	482	400
TUB-M06-0.75	6.0	0.08	4.5	0.12	0.75	286	251
TUB-M06-1.0	6.0	0.08	4.0	0.12	1.00	416	352
TUB-M06-1.5	6.0	0.08	3.0	0.15	1.50	663	524
TUB-M06-2.0	6.0	0.08	2.0	0.15	2.00	924	683
TUB-M06-2.25	6.0	0.08	1.5	0.15	2.25	1053	755
TUB-M08-1.0	8.0	0.08	6.0	0.10	1.00	320	278
TUB-M08-1.5	8.0	0.08	5.0	0.10	1.50	516	424
TUB-M08-2.0	8.0	0.08	4.0	0.15	2.00	693	543
TUB-M08-2.5	8.0	0.08	3.0	0.15	2.50	888	663
TUB-M10-1.0	10.0	0.08	8.0	0.08	1.00	263	232
TUB-M10-1.5	10.0	0.08	7.0	0.12	1.50	407	345
TUB-M10-2.0	10.0	0.08	6.0	0.15	2.00	554	451
TUB-M10-2.5	10.0	0.08	5.0	0.15	2.50	711	555
TUB-M10-3.0	10.0	0.08	4.0	0.15	3.00	867	650
TUB-M10-4.0	10.0	0.08	2.0	0.15	4.00	1178	820
TUB-M12-1.0	12.0	0.08	10.0	0.08	1.00	219	196
TUB-M12-1.5	12.0	0.08	9.0	0.10	1.50	344	297
TUB-M12-2.0	12.0	0.08	8.0	0.12	2.00	469	391
TUB-M12-2.5	12.0	0.08	7.0	0.15	2.50	592	477
TUB-M12-3.0	12.0	0.08	6.0	0.15	3.00	723	562
TUB-M12-4.0	12.0	0.08	4.0	0.15	4.00	984	717
TUB-M14-1.0	14.0	0.08	12.0	0.08	1.00	187	169
TUB-M14-1.5	14.0	0.08	11.0	0.08	1.50	299	262
TUB-M14-2.0	14.0	0.08	10.0	0.10	2.00	407	345
TUB-M14-2.5	14.0	0.08	9.0	0.12	2.50	514	423

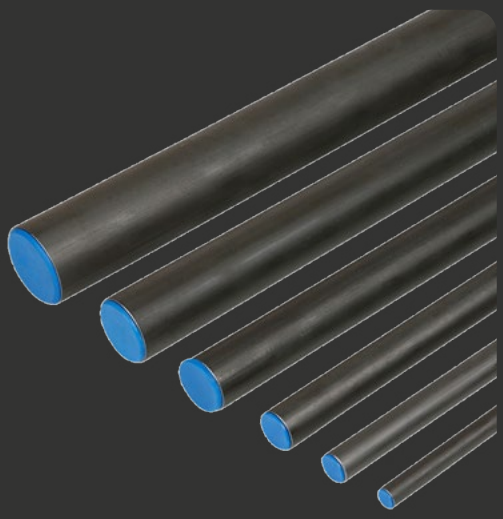
Metric Steel Tube- Phosphate treated and oiled

Metric precision steel pipe, EN 10305-4, E235+N

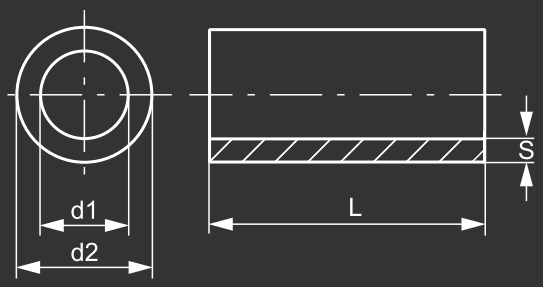
Identification	Ø d2 mm	AD tolerance + / - mm	Ø d1 mm	ID tolerance + / - mm	S mm	Specific load I bar	Specific load III bar
TUB-M14-3.0	14.0	0.08	8.0	0.15	3.00	619	495
TUB-M14-3.5	14.0	0.08	7.0	0.15	3.50	731	568
TUB-M15-1.0	15.0	0.08	13.0	0.08	1.00	175	159
TUB-M15-1.5	15.0	0.08	12.0	0.08	1.50	279	246
TUB-M15-2.0	15.0	0.08	11.0	0.10	2.00	380	324
TUB-M15-2.5	15.0	0.08	10.0	0.12	2.50	480	398
TUB-M15-3.0	15.0	0.08	9.0	0.15	3.00	578	467
TUB-M16-1.0	16.0	0.08	14.0	0.08	1.00	164	149
TUB-M16-1.5	16.0	0.08	13.0	0.08	1.50	262	231
TUB-M16-2.0	16.0	0.08	12.0	0.10	2.00	346	298
TUB-M16-2.5	16.0	0.08	11.0	0.12	2.50	450	377
TUB-M16-3.0	16.0	0.08	10.0	0.15	3.00	542	442
TUB-M16-4.0	16.0	0.08	8.0	0.15	4.00	738	572
TUB-M17-2.0	17.0	0.08	13.0	0.15	2.00	325	281
TUB-M18-1.0	18.0	0.08	16.0	0.08	1.00	146	133
TUB-M18-1.5	18.0	0.08	15.0	0.08	1.50	233	207
TUB-M18-2.0	18.0	0.08	14.0	0.08	2.00	320	278
TUB-M18-2.5	18.0	0.08	13.0	0.15	2.50	395	335
TUB-M18-3.0	18.0	0.08	12.0	0.15	3.00	482	400
TUB-M20-1.5	20.0	0.08	17.0	0.08	1.50	209	188
TUB-M20-2.0	20.0	0.08	16.0	0.08	2.00	288	252
TUB-M20-2.5	20.0	0.08	15.0	0.15	2.50	355	305
TUB-M20-3.0	20.0	0.08	14.0	0.15	3.00	433	364
TUB-M20-3.5	20.0	0.08	13.0	0.15	3.50	512	421
TUB-M20-4.0	20.0	0.08	12.0	0.15	4.00	590	475
TUB-M22-1.0	22.0	0.08	20.0	0.08	1.00	119	109
TUB-M22-1.5	22.0	0.08	19.0	0.08	1.50	190	172
TUB-M22-2.0	22.0	0.08	18.0	0.08	2.00	262	231
TUB-M22-2.5	22.0	0.08	17.0	0.08	2.50	333	288
TUB-M22-3.0	22.0	0.08	16.0	0.15	3.00	394	335
TUB-M25-1.0	25.0	0.08	23.0	0.08	1.00	105	97
TUB-M25-1.5	25.0	0.08	20.0	0.08	1.50	167	152
TUB-M25-2.0	25.0	0.08	21.0	0.08	2.00	230	205
TUB-M25-2.5	25.0	0.08	20.0	0.08	2.50	293	256
TUB-M25-3.0	25.0	0.08	19.0	0.15	3.00	347	299
TUB-M25-3.5	25.0	0.08	18.0	0.15	3.50	409	347
TUB-M25-4.0	25.0	0.08	17.0	0.15	4.00	472	393
TUB-M25-4.5	25.0	0.08	16.0	0.15	4.50	535	437
TUB-M25-5.0	25.0	0.08	15.0	0.15	5.00	597	480
TUB-M28-1.0	28.0	0.08	26.0	0.08	1.00	93	87
TUB-M28-1.5	28.0	0.08	25.0	0.08	1.50	149	136
TUB-M28-4.0	28.0	0.08	20.0	0.15	4.00	421	355
TUB-M28-4.5	28.0	0.08	19.0	0.15	4.50	477	396
TUB-M28-5.0	28.0	0.08	18.0	0.15	5.00	533	436
TUB-M30-1.5	30.0	0.08	27.0	0.08	1.50	139	128
TUB-M30-2.0	30.0	0.08	26.0	0.08	2.00	192	173

Metric Steel Tube- Phosphate treated and oiled

Metric precision steel pipe, EN 10305-4, E235+N



Design:	Precision steel pipe, metric
Standard:	DIN EN 10305-4
Material:	Steel ST 37.4 NBK (1.0255)
Surface:	Phosphate treated and oiled
Pipe length:	6 metres



Note: The pressure figures are based on Straight pipes. The appropriate wall thickness needs to be calculated for pipes with bends as stipulated in DIN EN 13480-4.

Identification	Ø d2 mm	AD tolerance + / - mm	Ø d1 mm	ID tolerance + / - mm	S mm	Specific load I bar	Specific load III bar
TUB-M30-2.5	30.0	0.08	25.0	0.08	2.50	244	217
TUB-M30-3.0	30.0	0.08	24.0	0.15	3.00	289	253
TUB-M30-4.0	30.0	0.08	20.0	0.15	4.00	393	334
TUB-M30-5.0	30.0	0.08	20.0	0.15	5.00	498	411
TUB-M30-6.0	30.0	0.15	18.0	0.15	6.00	595	478
TUB-M32-1.5	32.0	0.08	29.0	0.08	1.50	131	120
TUB-M32-2.5	32.0	-	27.0	-	2.50	-	-
TUB-M32-4.0	32.0	-	24.0	-	4.00	-	-
TUB-M35-2.0	35.0	0.15	31.0	0.15	2.00	152	138
TUB-M35-2.5	35.0	0.15	30.0	0.15	2.50	196	177
TUB-M35-3.0	35.0	0.15	29.0	0.15	3.00	241	214
TUB-M35-4.0	35.0	0.15	27.0	0.15	4.00	331	286
TUB-M35-5.0	35.0	0.15	25.0	0.15	5.00	420	355
TUB-M35-6.0	35.0	0.15	23.0	0.15	6.00	510	420
TUB-M38-2.5	38.0	0.15	33.0	0.15	2.50	181	163
TUB-M38-3.0	38.0	0.15	32.0	0.15	3.00	222	198
TUB-M38-4.0	38.0	0.15	30.0	0.15	4.00	305	266
TUB-M38-5.0	38.0	0.15	28.0	0.15	5.00	387	330
TUB-M38-6.0	38.0	0.15	26.0	0.15	6.00	469	391
TUB-M38-7.0	38.0	0.15	24.0	0.15	7.00	552	449
TUB-M42-2.0	42.0	0.20	38.0	0.20	2.00	119	109
TUB-M42-3.0	42.0	0.20	36.0	0.20	3.00	193	174
TUB-M42-4.0	42.0	0.20	34.0	0.20	4.00	268	236
TUB-M42-5.0	42.0	0.20	32.0	0.20	5.00	343	296
TUB-M45-5.0	45.0	0.20	35.0	0.20	5.00	320	278

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Metric Steel Tube- Phosphate treated and oiled

Metric precision steel pipe, EN 10305-4, E235+N

Identification	Ø d2 mm	AD tolerance + / - mm	Ø d1 mm	ID tolerance + / - mm	S mm	Specific load I bar	Specific load III bar
TUB-M50-4.0	50.0	0.20	42.0	0.20	4.00	225	201
TUB-M50-5.0	50.0	0.20	40.0	0.20	5.00	288	252
TUB-M50-6.0	50.0	0.20	38.0	0.20	6.00	350	302
TUB-M60-3.0	60.0	0.25	54.0	0.25	3.00	130	119
TUB-M60-4.0	60.0	0.25	52.0	0.25	4.00	182	165
TUB-M60-10.0	60.0	0.25	40.0	0.25	10.00	496	410
TUB-M65-8.0	65.0	0.30	49.0	0.30	8.00	356	306
TUB-M80-10.0	80.0	0.35	60.0	0.35	10.00	364	312

Additional info:
Specific load I: static (up to 100 °C)
Specific load III: dynamic (up to 200 °C) stress range = P bar Strength parameter: K 235 [N / mm2]
Safety coefficient: S 1.5
Fatigue strength: Sch / D 225 [N / mm2]
Tolerance: DIN 10305-4

05





HYDRAULIC ADAPTORS

Hydraulic adaptors connect differing thread types, sizes, and sealing systems within fluid power assemblies. They allow system integration across BSP, JIC, ORFS, metric, and other international standards.

This section includes straight, elbow, tee, and reducer configurations used in mobile hydraulics, industrial equipment, transport systems, and machinery manufacturing where compatibility and sealing reliability are critical.

Finished with MotusCoat™ for enhanced durability and corrosion resistance.

HYDRAULIC ADAPTORS

ORFS Male / Male 234

ORFS Female / Female 235

ORFS Female / Male 236

ORFS Bulkhead 237

ORFS Male / UN'O'Ring Male 238

ORFS Female / Metric Captive Male - Screw-in sockets 239








ORFS Female / BSPP Male 240

ORFS Bulkhead / BSPP Male 241

ORFS Female / JIC Male 242

ORFS Female / Metric Stud Male - OS 243

ORFS Male / Metric Stud Male - OS 244

ORFS Male / Metric Stud Male 245








ORFS Female / Metric Captive Male - Screw-in sockets 246

ORFS Male / BSPP Captive Male 247

ORFS Female / BSPP Captive Male 248

ORFS Male / BSPT Male 249

ORFS Male / NPT Male 250

ORFS Bulkhead 45 251








ORFS Male / Female 45 252

ORFS Male / UNO Male Positional 45 253

ORFS Male / Metric Male Positional 45 254

ORFS Male / BSPP Male Positional 45 255

ORFS Male / NPT Male 45 256

ORFS Male / Male 90 257








ORFS Male / Female 90 258

ORFS Bulkhead 90 259

ORFS Female / UNO Male Positional 90 260

ORFS Male / UNO Male Positional 90 261

ORFS Male / Metric Male Positional 90 262

ORFS Male / BSPP Male Positional 90 263








ORFS Male / NPT Male 90
264



ORFS Male Tee / ORFS Female Branch
265



ORFS Male Tee
266



ORFS Male Tee / UNO Male Positional Branch
267



ORFS Male Tee / Metric Male Positional Branch
268



ORFS Male Tee / BSPP Male Positional Branch
269



ORFS Bulkhead Running Tee
270



ORFS Female Tee / ORFS Male Run
271



ORFS Male Tee / ORFS Female Run
272



ORFS Male Tee / UNO Male Positional Run
273



ORFS Male Tee / Metric Male Positional OS Run
274



ORFS Male Tee / Metric Male Positional Run
275



ORFS Male Tee / BSPP Male Positional Run
276



ORFS Female Cross
277



ORFS Male Cross
278



JIC Fixed Female / Male
279



JIC Swivel Female / Male
280



JIC Swivel Female / Female
282



JIC Male / Male
283



JIC Bulkhead
285



JIC Swivel Female / ORFS Male
286



JIC Male / ORFS Male
287



JIC Swivel Female / BSPP Male - Connectors
288



JIC Swivel Female / BSPP Male (Captive Seal)
289



UNO Male / JIC Fixed Female
290



JIC Swivel Female / UNO Male
291



JIC Male / UNO Male
292



JIC Male / Metric Stud Male - OS
294



JIC Female / Metric Stud Male
295



JIC Male / Metric Stud Male
296



HYDRAULIC ADAPTORS

JIC Male / BSPP Swivel Female
297



JIC Male / BSPP Male
298



BSPP Male / UNO Male
299



UNO Male Positional / BSPP Swivel Female 90
300



BSPT Male / UNO Male
301



JIC Male / BSPP Captive Male
302



JIC Swivel Female / BSPP Captive Male
304



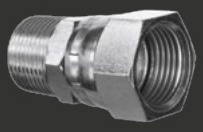
JIC Male / BSPP Fixed Female
305



JIC Swivel Female / BSPP Male - Screw-in sockets
306



JIC Swivel Female / BSPT Male
307



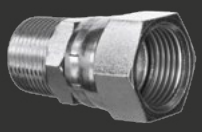
JIC Male / BSPT Male
308



JIC Male / NPT Male
310



JIC Female / NPT Male
312



JIC Male / NPT Fixed Female
313



JIC Male / JIC Swivel Female 45
314



JIC Bulkhead 45
315



JIC Male / Male 45
316



JIC Female / BSPP Male 45
317



JIC Male / UNO Male Positional 45
318



JIC Male / Metric Male Positional 45
319



JIC Swivel Female / BSPT Male 45
320



JIC Male / BSPT Male 45
321



JIC Male / BSPP Male Positional 45
322



JIC Male / NPT Male 45
323



JIC Male / Swivel Female 90
324



JIC Male / Male 90
325



JIC Bulkhead 90
326



JIC Female / BSPP Male 90
327



JIC Male / UNO Male positional 90
328



JIC Male / Metric Male Positional 90
329



JIC Swivel Female / BSPT Male 90
330



JIC Male / BSPT Male 90
331



JIC Male / BSPP Male Positional 90
332



JIC Swivel Female / NPT Male 90
333



JIC Male / NPT Male 90
334



JIC Male Tee / JIC Swivel Female Branch
336



JIC Male Tee
337



JIC Bulkhead Branch Tee
338



JIC Male Tee / UNO Male Positional Branch
339



JIC Male Tee / Metric Male Positional Branch
340



JIC Male Tee / BSPP Male Positional Branch
341



JIC Male Tee / BSPT Male Branch
342



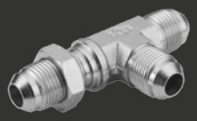
JIC Male Tee / NPT Male Branch
343



JIC Male Tee / JIC Swivel Female Run
344



JIC Bulkhead Tee Run
345



JIC Male Tee / UNO Male Positional Run
346



JIC Male Tee / Metric Male Positional Run
347



JIC Male Tee / BSPP Male Positional Run
348



JIC Male Tee / NPT Male Run
349



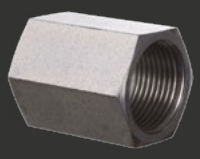
JIC Male Cross
350



BSPP Male / Metric Male Positional 90
351



BSPP Parallel Socket
352



BSPP Male / BSPP Captive Male
353



BSPP Swivel Female / BSPP Male
354



BSPP Swivel Female / Female
356



BSPP Male / Male
357



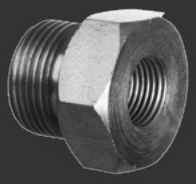
BSPP Bulkhead
359



BSPP Male / BSPT Female
360



BSPP Male / BSPP Female
361



BSPP Swivel Female / BSPP Swivel Female
363



HYDRAULIC ADAPTORS

BSPP Male / Female Long 364



BSPP Male / NPT Female 365



BSPP Male / NPT Male 366



BSPT Male / BSPP Fixed Female 368



BSPP Swivel Female / BSPT Male 370



BSPP Male / BSPT Male 371



BSPP Male / Metric Stud Male 373



BSPP Socket 45 374



BSPP Male / BSPP male Positional 45 375



BSPP Male / Swivel Female 45 376



BSPT Male / Male 45 377



BSPT Male / BSPP Female 45 378



BSPT Male / BSPP Swivel Female 45 379



BSPT Male / BSPP Male 45 380



BSPP Male / UNO Male Positional 45 381



BSPP Socket 90 382



BSPP Male / BSPP Male Positional 90 383



BSPP Male / Swivel Female 90 384



BSPP Bulkhead 90 385



BSPP Male / NPT Male 90 386



BSPT Male / Male 90 387



BSPT Male / BSP Female 90 388



BSPT Male / BSPP Swivel Female 90 389



BSPT Male / BSPP Male 90 390



BSPP Male / UNO Male Positional 90 391



BSPP Swivel Female Tee / Male Branch 392



BSPP Male Tee / Female Swivel Branch 393



BSPP Male Tee 394



BSPP Male Tee / UNO Male Positional Branch 395



BSPP Male Tee / Metric Male Positional Branch 396



BSPP Male Tee / BSPP Swivel Female Run
397



BSPP Male Tee / BSPP Male Positional Run
398



BSPP Male Tee / Metric Male Positional Run
399



BSPP Fixed Female Cross
400



BSPP Swivel Female Cross
401



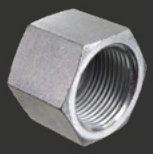
BSPP Male Cross
402



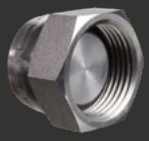
BSPP Male Blanking Plug
403



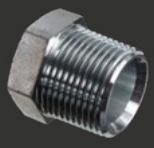
BSPP Fixed Female Blanking Cap
404



BSPP Swivel Female Blanking Cap
405



BSPT Male Blanking Plug
406



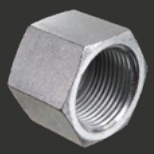
NPT Male Blanking Plug
407



NPT Male Blanking Grub Screw
408



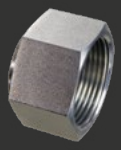
NPT Fixed Female Blanking Cap
409



ORFS Male Blanking Plug
410



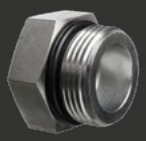
ORFS Swivel Female Blanking Cap
411



JIC Male Blanking Plug
412



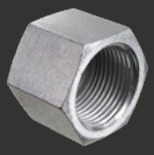
UNO Male Blanking Plug
413



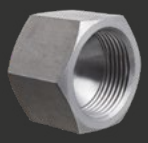
UNO Male In Hex Plug
414



JIC Fixed Female Blanking Cap
415



JIC Swivel Female Blanking Cap
416



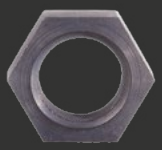
BSPP Banjo Bolt
417



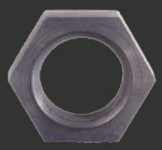
Metric Banjo Bolt
418



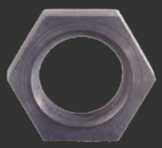
JIC Bulkhead Nut
419



ORFS Bulkhead Nut
420



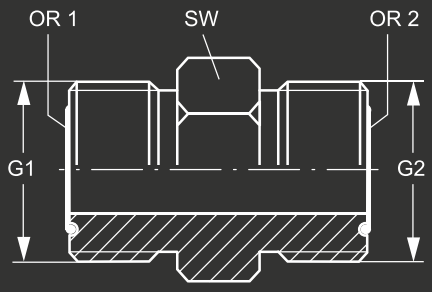
BSPP Bulkhead Nut
421



ORFS Male / Male
Connection sockets



Connection 1:	ORFS external threads
Sealing form 1:	Flat seal with O-ring
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Connection sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	OR1	OR2
ORM-ORM-0909-MC	9/16"-18 UNF	9/16"-18 UNF	16	7.65 x 1.78	7.65 x 1.78
ORM-ORM-0911-MC	9/16"-18 UNF	11/16"-16 UN	19	7.65 x 1.78	9.25 x 1.78
ORM-ORM-1111-MC	11/16"-16 UN	11/16"-16 UN	19	9.25 x 1.78	9.25 x 1.78
ORM-ORM-1113-MC	11/16"-16 UN	13/16"-16 UN	22	9.25 x 1.78	12.42 x 1.78
ORM-ORM-1313-MC	13/16"-16 UN	13/16"-16 UN	22	12.42 x 1.78	12.42 x 1.78
ORM-ORM-1316-MC	13/16"-16 UN	1"-14 UNS	27	12.42 x 1.78	15.60 x 1.78
ORM-ORM-1616-MC	1"-14 UNS	1"-14 UNS	27	15.60 x 1.78	15.60 x 1.78
ORM-ORM-1619-MC	1"-14 UNS	1.3/16"-12 UN	32	15.60 x 1.78	18.77 x 1.78
ORM-ORM-1919-MC	1.3/16"-12 UN	1.3/16"-12 UN	32	18.77 x 1.78	18.77 x 1.78
ORM-ORM-1923-MC	1.3/16"-12 UN	1.7/16"-12 UN	41	18.77 x 1.78	23.52 x 1.78
ORM-ORM-2323-MC	1.7/16"-12 UN	1.7/16"-12 UN	38	23.52 x 1.78	23.52 x 1.78
ORM-ORM-1327-MC	1.7/16"-12 UN	1.11/16"-12 UN	46	23.52 x 1.78	29.87 x 1.78
ORM-ORM-2727-MC	1.11/16"-12 UN	1.11/16"-12 UN	46	29.87 x 1.78	29.87 x 1.78
ORM-ORM-2732-MC	2"-12 UN	2"-12 UN	55	37.82 x 1.78	37.82 x 1.78
ORM-ORM-3232-MC	2.1/2"-12 UN	2.1/2"-12 UN	70	48.90 x 2.62	48.90 x 2.62

SW = Width across flats

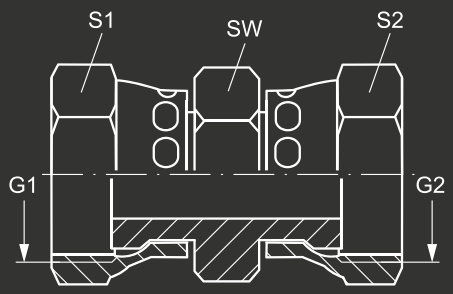
Product Version: Stainless Steel (SS)

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ORFS Female / Female
Connectors



Connection 1:	ORFS nut threads
Sealing form 1:	Flat sealing
Connection 2:	ORFS nut threads
Sealing form 2:	Flat seal
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



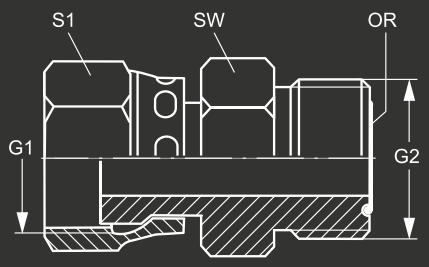
Identification	G1 + G2 Thread	SW mm	S1	S2
ORF-ORF-0909-MC	9/16"-18 UNF	17	18	18
ORF-ORF-1111-MC	11/16"-16 UN	19	21	21
ORF-ORF-1313-MC	13/16"-16 UN	22	24	24
ORF-ORF-1616-MC	1"-14 UNS	27	29	29
ORF-ORF-1919-MC	1.3/16"-12 UN	32	35	35
ORF-ORF-2323-MC	1.7/16"-12 UN	38	41	41
ORF-ORF-2727-MC	1.11/16"-12 UN	46	48	48
ORF-ORF-3232-MC	2"-12 UN	55	55	57

SW, S1, S2 = Width across flats

ORFS Female / Male
Connectors



Connection 1:	ORFS nut threads
Sealing form 1:	Flat sealing
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR
ORF-ORM-1109-MC	11/16"–16 UN	9/16"–18 UNF	19	22	7.65 x 1.78
ORF-ORM-1309-MC	13/16"–16 UN	9/16"–18 UNF	16	24	7.65 x 1.78
ORF-ORM-1311-MC	13/16"–16 UN	11/16"–16 UN	22	24	9.25 x 1.78
ORF-ORM-1609-MC	1"–14 UNS	9/16"–18 UNF	16	30	7.65 x 1.78
ORF-ORM-1611-MC	1"–14 UNS	11/16"–16 UN	19	30	9.25 x 1.78
ORF-ORM-1613-MC	1"–14 UNS	13/16"–16 UN	22	30	12.42 x 1.78
ORF-ORM-1909-MC	1.3/16"–12 UN	9/16"–18 UNF	16	36	7.65 x 1.78
ORF-ORM-1911-MC	1.3/16"–12 UN	11/16"–16 UN	19	36	9.25 x 1.78
ORF-ORM-1913-MC	1.3/16"–12 UN	13/16"–16 UN	32	36	12.42 x 1.78
ORF-ORM-1916-MC	1.3/16"–12 UN	1"–14 UNS	32	36	15.60 x 1.78
ORF-ORM-2313-MC	1.7/16"–12 UN	13/16"–16 UN	22	41	12.42 x 1.78
ORF-ORM-2316-MC	1.7/16"–12 UN	1"–14 UNS	27	41	15.60 x 1.78
ORF-ORM-2319-MC	1.7/16"–12 UN	1.3/16"–12 UN	41	41	18.77 x 1.78
ORF-ORM-2719-MC	1.11/16"–12 UN	1.3/16"–12 UN	32	50	18.77 x 1.78
ORF-ORM-2723-MC	1.11/16"–12 UN	1.7/16"–12 UN	38	50	23.52 x 1.78
ORF-ORM-3227-MC	2"–12 UN	1.7/16"–12 UN	38	60	23.52 x 1.78
ORF-ORM-3232-MC	2"–12 UN	1.11/16"–12 UN	46	60	29.87 x 1.78

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

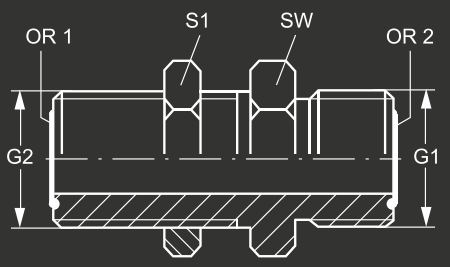
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ORFS Bulkhead

Bulkhead fitting socket



Connection 1:	ORFS external threads
Sealing form 1:	Flat seal with O-ring
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Bulkhead fitting socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm	S1	OR1 + OR2
ORM-OBM-0909-MC	9/16"-18 UNF	22	22	7.66 x 1.78
ORM-OBM-1111-MC	11/16"-16 UN	27	27	9.25 x 1.78
ORM-OBM-1313-MC	13/16"-16 UN	30	30	12.42 x 1.78
ORM-OBM-1616-MC	1"-14 UNS	36	36	15.60 x 1.78
ORM-OBM-1919-MC	1.3/16"-12 UN	41	41	18.77 x 1.78
ORM-OBM-2323-MC	1.7/16"-12 UN	46	46	23.52 x 1.78
ORM-OBM-2727-MC	1.11/16"-12 UN	50	50	29.87 x 1.78
ORM-OBM-3232-MC	2"-12 UN	60	60	37.82 x 1.78

SW, S1, S2 = Width across flats

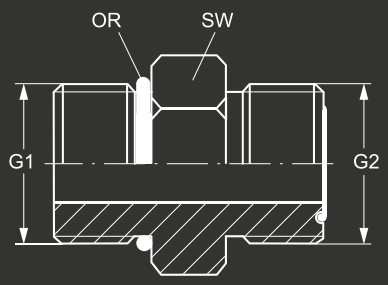
Product Version: Stainless Steel (SS)

ORFS Male / UN'O'Ring Male

Screw-in sockets



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	OR1	OR2
UNM-ORM-0409-MC	7/16"-20 UNF	9/16"-18 UNF	17	8.92 x 1.83	7.65 x 1.78
UNM-ORM-0411-MC	7/16"-20 UNF	11/16"-16 UN	19	8.92 x 1.83	9.25 x 1.78
UNM-ORM-0509-MC	1/2"-20 UNF	9/16"-18 UNF	19	10.52 x 1.83	7.65 x 1.78
UNM-ORM-0511-MC	1/2"-20 UNF	11/16"-16 UN	19	10.52 x 1.83	9.25 x 1.78
UNM-ORM-0609-MC	9/16"-18 UNF	9/16"-18 UNF	19	11.89 x 1.98	7.65 x 1.78
UNM-ORM-0611-MC	9/16"-18 UNF	11/16"-16 UN	19	11.89 x 1.98	9.25 x 1.78
UNM-ORM-0613-MC	9/16"-18 UNF	13/16"-16 UN	22	11.89 x 1.98	12.42 x 1.78
UNM-ORM-0809-MC	3/4"-16 UNF	9/16"-18 UNF	22	16.36 x 2.21	7.65 x 1.78
UNM-ORM-0811-MC	3/4"-16 UNF	11/16"-16 UN	22	16.36 x 2.21	9.25 x 1.78
UNM-ORM-0813-MC	3/4"-16 UNF	13/16"-16 UN	22	16.36 x 2.21	12.42 x 1.78
UNM-ORM-0816-MC	3/4"-16 UNF	1"-14 UNS	27	16.36 x 2.21	15.60 x 1.78
UNM-ORM-0819-MC	3/4"-16 UNF	1.3/16"-12 UN	32	16.36 x 2.21	18.77 x 1.78
UNM-ORM-1011-MC	7/8"-14 UNF	11/16"-16 UN	27	19.18 x 2.46	9.25 x 1.78
UNM-ORM-1013-MC	7/8"-14 UNF	13/16"-16 UN	27	19.18 x 2.46	12.42 x 1.78
UNM-ORM-1016-MC	7/8"-14 UNF	1"-14 UNS	27	19.18 x 2.46	15.60 x 1.78
UNM-ORM-1019-MC	7/8"-14 UNF	1.3/16"-12 UN	32	19.18 x 2.46	18.77 x 1.78
UNM-ORM-1213-MC	1.1/16"-12 UN	13/16"-16 UN	32	23.47 x 2.95	12.42 x 1.78
UNM-ORM-1216-MC	1.1/16"-12 UN	1"-14 UNS	32	23.47 x 2.95	15.60 x 1.78
UNM-ORM-1219-MC	1.1/16"-12 UN	1.3/16"-12 UN	32	23.47 x 2.95	18.77 x 1.78
UNM-ORM-1223-MC	1.1/16"-12 UN	1.7/16"-12 UN	38	23.47 x 2.95	23.52 x 1.78
UNM-ORM-1619-MC	1.5/16"-12 UN	1.3/16"-12 UN	38	29.74 x 2.95	18.77 x 1.78
UNM-ORM-1623-MC	1.5/16"-12 UN	1.7/16"-12 UN	38	29.74 x 2.95	23.52 x 1.78
UNM-ORM-1627-MC	1.5/16"-12 UN	1.11/16"-12 UN	46	29.74 x 2.95	29.87 x 1.78
UNM-ORM-2023-MC	1.5/8"-12 UN	1.7/16"-12 UN	46	37.47 x 3.00	23.52 x 1.78
UNM-ORM-2027-MC	1.5/8"-12 UN	1.11/16"-12 UN	46	37.47 x 3.00	29.87 x 1.78
UNM-ORM-2032-MC	1.5/8"-12 UN	2"-12 UN	55	37.47 x 3.00	37.82 x 1.78
UNM-ORM-2427-MC	1.7/8"-12 UN	1.11/16"-12 UN	54	43.69 x 3.00	29.87 x 1.78
UNM-ORM-2432-MC	1.7/8"-12 UN	2"-12 UN	55	43.69 x 3.00	37.82 x 1.78
UNM-ORM-3240-MC	2.1/2"-12 UN	2.1/2"-12 UN	70	59.36 x 3.00	48.90 x 2.62

SW = Width across flats

Product Version: Stainless Steel (SS)

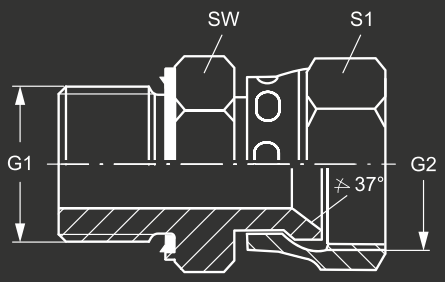
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ORFS Female / Metric Captive Male

Screw-in sockets



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Shape E
Connection 2:	UN / UNF nut threads
Sealing form 2:	74° inner cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™

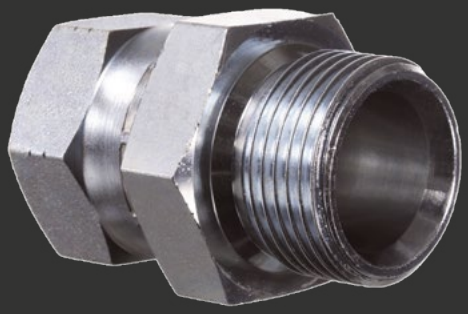


Identification	G1	G2	SW mm	S1
EDM-JIF-1004-MC	M 10 x 1	7/16"-20 UNF	14	16
EDM-JIF-1205-MC	M 12 x 1.5	1/2"-20 UNF	17	17
EDM-JIF-1406-MC	M 14 x 1.5	9/16"-18 UNF	19	19
EDM-JIF-1608-MC	M 16 x 1.5	3/4"-16 UNF	22	22
EDM-JIF-2210-MC	M 22 x 1.5	7/8"-14 UNF	27	27
EDM-JIF-2712-MC	M 27 x 2	1.1/16"-12 UN	32	32
EDM-JIF-3316-MC	M 33 x 2	1.5/16"-12 UN	41	38

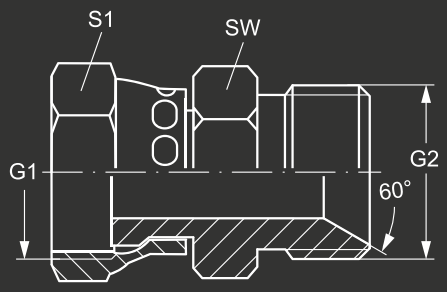
SW, S1, S2 = Width across flats

Spare Parts: WD Soft Seal for ED Fittings

ORFS Female / BSPP Male
Connectors



Connection 1:	ORFS nut threads
Sealing form 1:	Flat sealing
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1
ORF-BPM-0904-MC	9/16"-18 UNF	G 1/4"–19	19	17
ORF-BPM-0906-MC	9/16"-18 UNF	G 3/8"–19	22	17
ORF-BPM-1104-MC	11/16"–16 UN	G 1/4"–19	19	22
ORF-BPM-1106-MC	11/16"–16 UN	G 3/8"–19	22	22
ORF-BPM-1108-MC	11/16"–16 UN	G 1/2"–14	27	22
ORF-BPM-1306-MC	13/16"–16 UN	G 3/8"–19	22	24
ORF-BPM-1308-MC	13/16"–16 UN	G 1/2"–14	27	24
ORF-BPM-1608-MC	1"–14 UNS	G 1/2"–14	27	30
ORF-BPM-1610-MC	1"–14 UNS	G 5/8"–14	30	30
ORF-BPM-1612-MC	1"–14 UNS	G 3/4"–14	32	30
ORF-BPM-1912-MC	1.3/16"–12 UN	G 3/4"–14	32	36
ORF-BPM-1916-MC	1.3/16"–12 UN	G 1"–11	41	36
ORF-BPM-2312-MC	1.7/16"–12 UN	G 3/4"–14	32	41
ORF-BPM-2316-MC	1.7/16"–12 UN	G 1"–11	41	41
ORF-BPM-2320-MC	1.7/16"–12 UN	G 1.1/4"–11	50	41
ORF-BPM-2720-MC	1.11/16"–12 UN	G 1.1/4"–11	50	50
ORF-BPM-3224-MC	2"–12 UN	G 1.1/2"–11	55	60

SW, S1, S2 = Width across flats

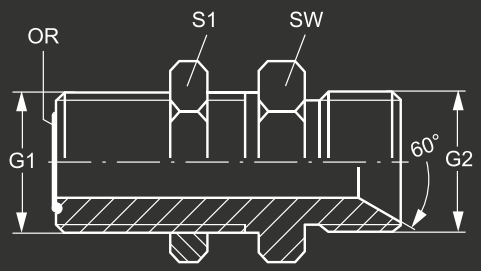
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ORFS Bulkhead / BSPP Male

Bulkhead fitting socket



Connection 1:	ORFS external threads
Sealing form 1:	Flat seal with O-ring
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Bulkhead fitting socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



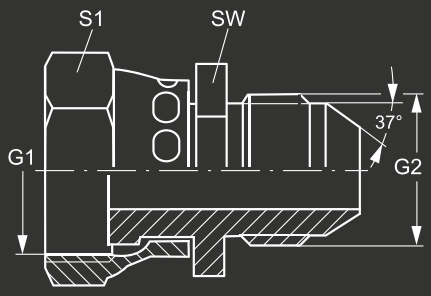
Identification	G1	G2	SW mm	S1	OR
OBM-BPM-1106-MC	11/16"–16 UN	G 3/8"–19	27	27	9.25 x 1.78
OBM-BPM-1308-MC	13/16"–16 UN	G 1/2"–14	27	30	12.42 x 1.78
OBM-BPM-1912-MC	1.3/16"–12 UN	G 3/4"–14	36	41	18.77 x 1.78
OBM-BPM-2316-MC	1.7/16"–12 UN	G 1"–11	41	46	23.52 x 1.78

SW, S1, S2 = Width across flats

ORFS Female / JIC Male
Connectors



Connection 1:	ORFS nut threads
Sealing form 1:	Flat sealing
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1
ORF-JIM-0904-MC	9/16"–18 UNF	7/16"–20 UNF	17	19
ORF-JIM-1106-MC	11/16"–16 UN	9/16"–18 UNF	19	22
ORF-JIM-1308-MC	13/16"–16 UN	3/4"–16 UNF	22	24
ORF-JIM-1610-MC	1"–14 UNS	7/8"–14 UNF	27	30
ORF-JIM-1912-MC	1.3/16"–12 UN	1.1/16"–12 UN	32	36
ORF-JIM-2316-MC	1.7/16"–12 UN	1.5/16"–12 UN	41	41

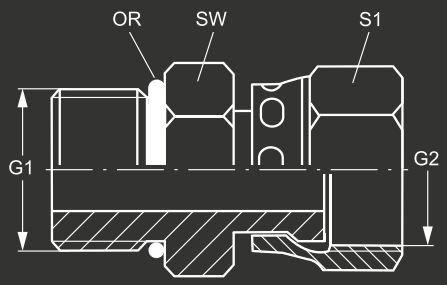
SW, S1, S2 = Width across flats

ORFS Female / Metric Stud Male - OS

Screw-in sockets



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	ORFS nut threads
Sealing form 2:	Flat seal
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR
MSM/OS-ORF-1209-MC	M 12 x 1.5	9/16"-18 UNF	17	17	9.4 x 2.1
MSM/OS-ORF-1411-MC	M 14 x 1.5	11/16"-16 UN	19	22	11.4 x 2.1
MSM/OS-ORF-1611-MC	M 16 x 1.5	11/16"-16 UN	22	22	13.4 x 2.1
MSM/OS-ORF-1613-MC	M 16 x 1.5	13/16"-16 UN	22	24	13.4 x 2.1
MSM/OS-ORF-2216-MC	M 22 x 1.5	1"-14 UNS	27	30	19.4 x 2.1
MSM/OS-ORF-2716-MC	M 27 x 2	1"-14 UNS	27	30	23.7 x 2.8
MSM/OS-ORF-2719-MC	M 27 x 2	1.3/16"-12 UN	32	36	23.7 x 2.8
MSM/OS-ORF-3323-MC	M 33 x 2	1.7/16"-12 UN	41	41	29.7 x 2.8
MSM/OS-ORF-4227-MC	M 42 x 2	1.11/16"-12 UN	50	50	38.7 x 2.8

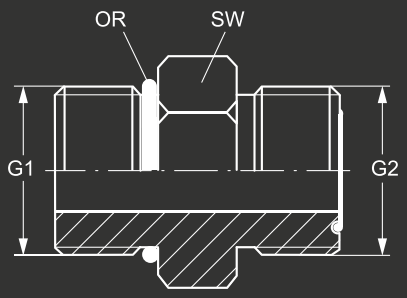
SW, S1, S2 = Width across flats

ORFS Male / Metric Stud Male - OS

Screw-in sockets



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1 Metric	G2 UN / UNF	SW mm	OR1	OR2
MSM/OS-ORM-1009-MC	M 10 x 1	9/16"-18 UNF	17	8.2 x 1.5	7.65 x 1.78
MSM/OS-ORM-1209-MC	M 12 x 1.5	9/16"-18 UNF	17	9.4 x 2.1	7.65 x 1.78
MSM/OS-ORM-1411-MC	M 14 x 1.5	11/16"-16 UN	19	11.4 x 2.1	9.25 x 1.78
MSM/OS-ORM-1611-MC	M 16 x 1.5	11/16"-16 UN	22	13.4 x 2.1	9.25 x 1.78
MSM/OS-ORM-1811-MC	M 18 x 1.5	11/16"-16 UN	24	15.4 x 2.1	9.25 x 1.78
MSM/OS-ORM-1813-MC	M 18 x 1.5	13/16"-16 UN	24	15.4 x 2.1	12.42 x 1.78
MSM/OS-ORM-1816-MC	M 18 x 1.5	1"–14 UNS	27	15.4 x 2.1	23.52 x 1.78
MSM/OS-ORM-2213-MC	M 22 x 1.5	13/16"-16 UN	27	19.4 x 2.1	12.42 x 1.78
MSM/OS-ORM-2216-MC	M 22 x 1.5	1"–14 UNS	27	19.4 x 2.1	15.60 x 1.78
MSM/OS-ORM-2219-MC	M 22 x 1.5	1.3/16"-12 UN	32	19.4 x 2.1	18.77 x 1.78
MSM/OS-ORM-2716-MC	M 27 x 2	1"–14 UNS	32	23.7 x 2.8	15.60 x 1.78
MSM/OS-ORM-2719-MC	M 27 x 2	1.3/16"-12 UN	32	23.7 x 2.8	18.77 x 1.78
MSM/OS-ORM-3319-MC	M 33 x 2	1.3/16"-12 UN	41	29.7 x 2.8	18.77 x 1.78
MSM/OS-ORM-3323-MC	M 33 x 2	1.7/16"-12 UN	41	29.7 x 2.8	23.52 x 1.78
MSM/OS-ORM-3327-MC	M 33 x 2	1.11/16"-12 UN	46	29.7 x 2.8	29.87 x 1.78
MSM/OS-ORM-4223-MC	M 42 x 2	1.7/8"-12 UN	50	38.7 x 2.8	23.52 x 1.78
MSM/OS-ORM-4227-MC	M 42 x 2	1.11/16"-12 UN	50	38.7 x 2.8	29.87 x 1.78
MSM/OS-ORM-4827-MC	M 48 x 2	1.11/16"-12 UN	55	46.7 x 2.8	29.87 x 1.78
MSM/OS-ORM-4832-MC	M 48 x 2	2"–12 UN	55	46.7 x 2.8	37.82 x 1.78

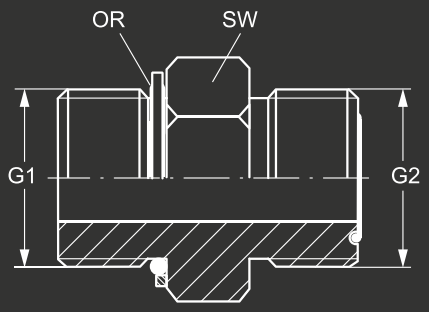
SW = Width across flats

ORFS Male / Metric Stud Male

Screw-in sockets



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	OR1	OR2
MSM-ORM-1009-MC	M 10 x 1	9/16"-18 UNF	17	8.2 x 1.5	7.65 x 1.78
MSM-ORM-1209-MC	M 12 x 1.5	9/16"-18 UNF	17	9.4 x 2.1	7.65 x 1.78
MSM-ORM-1409-MC	M 14 x 1.5	9/16"-18 UNF	19	11.4 x 2.1	7.65 x 1.78
MSM-ORM-1411-MC	M 14 x 1.5	11/16"-16 UN	19	11.4 x 2.1	9.25 x 1.78
MSM-ORM-1611-MC	M 16 x 1.5	11/16"-16 UN	22	13.4 x 2.1	9.25 x 1.78
MSM-ORM-1813-MC	M 18 x 1.5	13/16"-16 UN	24	15.4 x 2.1	12.42 x 1.78
MSM-ORM-2213-MC	M 22 x 1.5	13/16"-16 UN	27	19.4 x 2.1	12.42 x 1.78
MSM-ORM-2216-MC	M 22 x 1.5	1"–14 UNS	27	19.4 x 2.1	15.60 x 1.78
MSM-ORM-2716-MC	M 27 x 2	1"–14 UNS	32	23.7 x 2.8	15.60 x 1.78
MSM-ORM-2719-MC	M 27 x 2	1.3/16"-12 UN	32	23.7 x 2.8	18.77 x 1.78
MSM-ORM-3319-MC	M 33 x 2	1.3/16"-12 UN	41	29.7 x 2.8	18.77 x 1.78
MSM-ORM-3323-MC	M 33 x 2	1.7/16"-12 UN	41	29.7 x 2.8	23.52 x 1.78
MSM-ORM-3323-MC	M 33 x 2	1.11/16"-12 UN	46	29.7 x 2.8	29.87 x 1.78
MSM-ORM-4227-MC	M 42 x 2	1.11/16"-12 UN	50	38.7 x 2.8	29.87 x 1.78
MSM-ORM-4827-MC	M 48 x 2	1.11/16"-12 UN	55	46.7 x 2.8	29.87 x 1.78
MSM-ORM-4832-MC	M 48 x 2	2"-12 UN	55	46.7 x 2.8	37.82 x 1.78

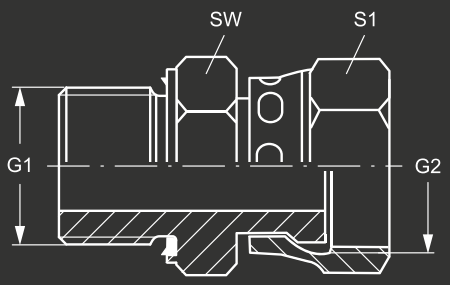
SW = Width across flats

ORFS Female / Metric Captive Male

Screw-in sockets



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Shape E
Connection 2:	UN / UNF nut threads
Sealing form 2:	Flat seal
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1
EDM-ORF-1209-MC	M 12 x 1.5	9/16"-18 UNF	17	17
EDM-ORF-1411-MC	M 14 x 1.5	11/16"–16 UN	19	22
EDM-ORF-1613-MC	M 16 x 1.5	13/16"–16 UN	22	24
EDM-ORF-2216-MC	M 22 x 1.5	1"–14 UNS	27	30
EDM-ORF-2719-MC	M 27 x 2	1.3/16"–12 UN	32	36
EDM-ORF-3323-MC	M 33 x 2	1.7/16"–12 UN	41	41
EDM-ORF-4227-MC	M 42 x 2	1.11/16"–12 UN	50	50

SW, S1, S2 = Width across flats

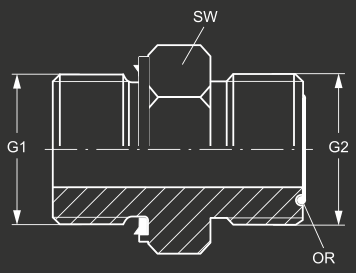
Spare Parts: WD Soft Seal
for ED Fittings

ORFS Male / BSPP Captive Male

Screw-in sockets



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Shape E
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	OR
EDB-ORM-0209-MC	G 1/8"–28	9/16"–18 UNF	17	7.65 x 1.78
EDB-ORM-0211-MC	G 1/8"–28	11/16"–16 UN	19	9.25 x 1.78
EDB-ORM-0409-MC	G 1/4"–19	9/16"–18 UNF	19	7.65 x 1.78
EDB-ORM-0411-MC	G 1/4"–19	11/16"–16 UN	19	9.25 x 1.78
EDB-ORM-0413-MC	G 1/4"–19	13/16"–16 UN	22	12.42 x 1.78
EDB-ORM-0609-MC	G 3/8"–19	9/16"–18 UNF	22	7.65 x 1.78
EDB-ORM-0611-MC	G 3/8"–19	11/16"–16 UN	22	9.25 x 1.78
EDB-ORM-0811-MC	G 3/8"–19	13/16"–16 UN	22	12.42 x 1.78
EDB-ORM-1011-MC	G 3/8"–19	1"–14 UNS	27	15.60 x 1.78
EDB-ORM-0413-MC	G 1/2"–14	9/16"–18 UNF	27	7.65 x 1.78
EDB-ORM-0613-MC	G 1/2"–14	11/16"–16 UN	27	9.25 x 1.78
EDB-ORM-0813-MC	G 1/2"–14	13/16"–16 UN	27	12.42 x 1.78
EDB-ORM-0816-MC	G 1/2"–14	1"–14 UNS	27	15.60 x 1.78
EDB-ORM-0819-MC	G 1/2"–14	1.3/16"–12 UN	32	18.77 x 1.78
EDB-ORM-1211-MC	G 3/4"–14	11/16"–16 UN	32	9.25 x 1.78
EDB-ORM-1213-MC	G 3/4"–14	13/16"–16 UN	32	12.42 x 1.78
EDB-ORM-1216-MC	G 3/4"–14	1"–14 UNS	32	15.60 x 1.78
EDB-ORM-1219-MC	G 3/4"–14	1.3/16"–12 UN	32	18.77 x 1.78
EDB-ORM-1223-MC	G 3/4"–14	1.7/16"–12 UN	41	23.52 x 1.78
EDB-ORM-1616-MC	G 1"–11	1"–14 UNS	41	15.60 x 1.78
EDB-ORM-1619-MC	G 1"–11	1.3/16"–12 UN	41	18.77 x 1.78
EDB-ORM-1623-MC	G 1"–11	1.7/16"–12 UN	41	23.52 x 1.78
EDB-ORM-1627-MC	G 1"–11	1.11/16"–12 UN	46	29.87 x 1.78
EDB-ORM-2023-MC	G 1.1/4"–11	1.7/16"–12 UN	50	23.52 x 1.78
EDB-ORM-2027-MC	G 1.1/4"–11	1.11/16"–12 UN	50	29.87 x 1.78
EDB-ORM-2423-MC	G 1.1/2"–11	1.7/16"–12 UN	55	23.52 x 1.78
EDB-ORM-2427-MC	G 1.1/2"–11	1.11/16"–12 UN	55	29.87 x 1.78
EDB-ORM-2432-MC	G 1.1/2"–11	2"–12 UN	55	37.82 x 1.78

SW = Width across flats

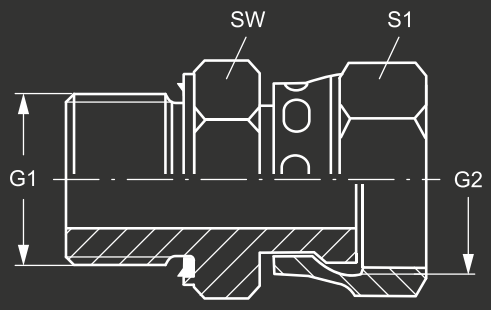
Product Version: Stainless Steel (SS)
Spare parts: WD - Soft seal for ED fittings

ORFS Female / BSPP Captive Male

Screw-in sockets



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Shape E
Connection 2:	ORFS nut threads
Sealing form 2:	Flat seal
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	Working pressure bar	G1	G2	SW mm	S1
EDB-ORF-0209-MC	PN 500	G 1/8"–28	9/16"-18 UNF	14	17
EDB-ORF-0409-MC	PN 500	G 1/4"–19	9/16"-18 UNF	19	17
EDB-ORF-0411-MC	PN 630	G 1/4"–19	11/16"–16 UN	19	22
EDB-ORF-0413-MC	PN 630	G 1/4"–19	13/16"–16 UN	22	24
EDB-ORF-0611-MC	PN 630	G 3/8"–19	11/16"–16 UN	22	22
EDB-ORF-0613-MC	PN 630	G 3/8"–19	13/16"–16 UN	22	24
EDB-ORF-0811-MC	PN 420	G 1/2"–14	11/16"–16 UN	27	22
EDB-ORF-0813-MC	PN 420	G 1/2"–14	13/16"–16 UN	27	24
EDB-ORF-0816-MC	PN 400	G 1/2"–14	1"–14 UNS	27	30
EDB-ORF-0819-MC	PN 420	G 1/2"–14	1.3/16"–12 UN	30	36
EDB-ORF-1216-MC	PN 420	G 3/4"–14	1"–14 UNS	32	30
EDB-ORF-1219-MC	PN 400	G 3/4"–14	1.3/16"–12 UN	32	36
EDB-ORF-1623-MC	PN 400	G 1"–11	1.7/16"–12 UN	41	41
EDB-ORF-2027-MC	PN 250	G 1.1/4"–11	1.11/16"–12 UN	50	50
EDB-ORF-2432-MC	PN 250	G 1.1/2"–11	2"–12 UN	55	60

SW, S1, S2 = Width across flats

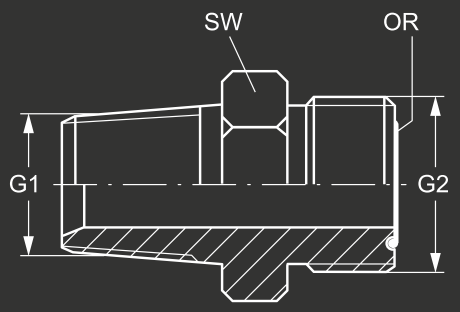
Spare Parts: WD Soft Seal
for ED Fittings

ORFS Male / BSPT Male

Screw-in sockets



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™

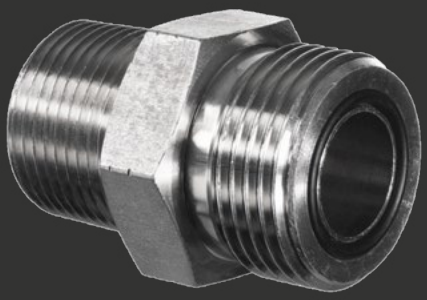


Identification	G1	G2	SW mm	OR
BTM-ORM-0409-MC	R 1/4"K	9/16"-18 UNF	17	7.65 x 1.78
BTM-ORM-0611-MC	R 3/8"K	11/16"-16 UN	19	9.25 x 1.78
BTM-ORM-0813-MC	R 1/2"K	13/16"-16 UN	22	12.42 x 1.78
BTM-ORM-0816-MC	R 1/2"K	1"-14 UNS	27	15.60 x 1.78
BTM-ORM-1219-MC	R 3/4"K	1.3/16"-12 UN	32	18.77 x 1.78
BTM-ORM-1623-MC	R 1"K	1.7/16"-12 UN	38	23.52 x 1.78
BTM-ORM-1619-MC	R 1"K	1.3/16"-12 UN	36	18.77 x 1.78
BTM-ORM-2027-MC	R 1.1/4"K	1.11/16"-12 UN	48	29.87 x 1.78
BTM-ORM-2432-MC	R 1.1/2"K	2"-12 UN	55	37.82 x 1.78

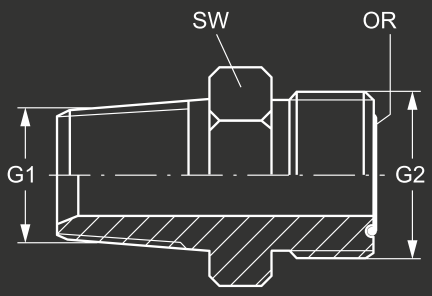
SW = Width across flats

ORFS Male / NPT Male

Screw-in sockets



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW	OR
NTM-ORM-0209-MC	1/8″-27 NPT	9/16″-18 UNF	16	7.65 x 1.78
NTM-ORM-0409-MC	1/4″-18 NPT	9/16″-18 UNF	16	7.65 x 1.78
NTM-ORM-0411-MC	1/4″-18 NPT	11/16″-16 UN	19	9.25 x 1.78
NTM-ORM-0611-MC	3/8″-18 NPT	11/16″-16 UN	19	9.25 x 1.78
NTM-ORM-0613-MC	3/8″-18 NPT	13/16″-16 UN	22	12.42 x 1.78
NTM-ORM-0811-MC	1/2″-14 NPT	11/16″-16 UN	22	9.25 x 1.78
NTM-ORM-0813-MC	1/2″-14 NPT	13/16″-16 UN	22	12.42 x 1.78
NTM-ORM-0816-MC	1/2″-14 NPT	1″-14 UNS	27	15.60 x 1.78
NTM-ORM-1213-MC	3/4″-14 NPT	13/16″-16 UN	29	12.42 x 1.78
NTM-ORM-1216-MC	3/4″-14 NPT	1″-14 UNS	29	15.60 x 1.78
NTM-ORM-1219-MC	3/4″-14 NPT	1.3/16″-12 UN	32	18.77 x 1.78
NTM-ORM-1223-MC	3/4″-14 NPT	1.7/16″-12 UN	38	23.52 x 1.78
NTM-ORM-1619-MC	1″-11.5 NPT	1.3/16″-12 UN	35	18.77 x 1.78
NTM-ORM-1623-MC	1″-11.5 NPT	1.7/16″-12 UN	38	23.52 x 1.78
NTM-ORM-2027-MC	1.1/4″-11.5 NPT	1.11/16″-12 UN	48	29.87 x 1.78
NTM-ORM-2432-MC	1.1/2″-11.5 NPT	2″-12 UN	54	37.82 x 1.78

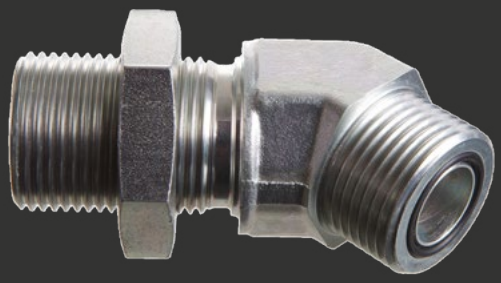
SW = Width across flats

Product Version: Stainless Steel (SS)

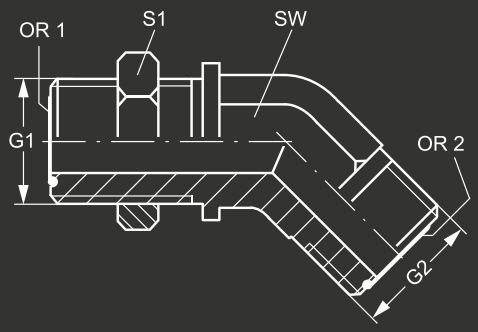
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ORFS Bulkhead 45

Bulkhead fitting socket, angle 45°



Connection 1:	ORFS external threads
Sealing form 1:	Flat seal with O-ring
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Bulkhead fitting socket
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm	S1	OR1 + OR2
ORM-OBM-45C-0909-MC	9/16"-18 UNF	14	22	7.66 x 1.78
ORM-OBM-45C-1111-MC	11/16"–16 UN	19	27	9.25 x 1.78
ORM-OBM-45C-1313-MC	13/16"–16 UN	19	30	12.42 x 1.78
ORM-OBM-45C-1616-MC	1"–14 UNS	27	32	15.60 x 1.78
ORM-OBM-45C-1919-MC	1.3/16"–12 UN	30	38	18.77 x 1.78
ORM-OBM-45C-2323-MC	1.7/16"–12 UN	37	48	23.52 x 1.78
ORM-OBM-45C-2727-MC	1.11/16"–12 UN	41	51	29.87 x 1.78
ORM-OBM-45C-3232-MC	2"–12 UN	48	60	37.82 x 1.78

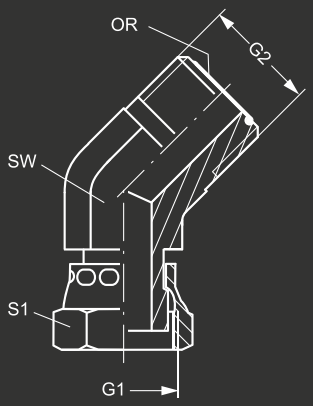
SW, S1, S2 = Width across flats

ORFS Male / Female 45

Connector, angle 45°



Connection 1:	ORFS nut threads
Sealing form 1:	Flat sealing
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



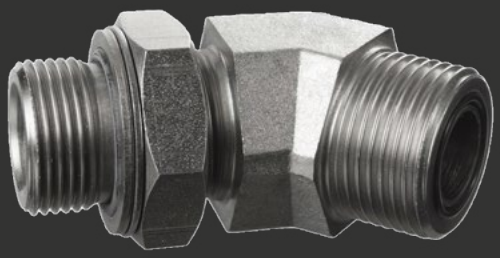
Identification	Working pressure bar	G1 + G2	SW mm	S1	OR
ORF-ORM-45C-0909-MC	PN 630	9/16"-18 UNF	14	17	7.65 x 1.78
ORF-ORM-45C-1111-MC	PN 630	11/16"-16 UN	19	22	9.25 x 1.78
ORF-ORM-45C-1313-MC	PN 630	13/16"-16 UN	19	24	12.42 x 1.78
ORF-ORM-45C-1616-MC	PN 400	1"–14 UNS	27	30	15.60 x 1.78
ORF-ORM-45C-1919-MC	PN 400	1.3/16"-12 UN	30	36	18.77 x 1.78
ORF-ORM-45C-2323-MC	PN 400	1.7/16"-12 UN	36	41	23.52 x 1.78
ORF-ORM-45C-2727-MC	PN 250	1.11/16"-12 UN	41	50	29.87 x 1.78
ORF-ORM-45C-3232-MC	PN 250	2"–12 UN	48	60	37.82 x 1.78

SW, S1, S2 = Width across flats

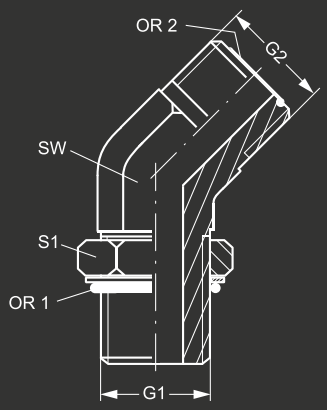
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ORFS Male / UNO Male Positional 45

Screw-in socket, angle 45°



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Adjustable direction screw-in socket
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR1	OR2
UNP-ORM-45-0409-MC	7/16"-20 UNF	9/16"-18 UNF	14	16	8.92 x 1.83	7.65 x 1.78
UNP-ORM-45C-0411-MC	7/16"-20 UNF	11/16"-16 UN	19	16	8.92 x 1.83	9.25 x 1.78
UNP-ORM-45C-0609-MC	9/16"-18 UNF	9/16"-18 UNF	19	19	11.89 x 1.98	7.65 x 1.78
UNP-ORM-45C-0611-MC	9/16"-18 UNF	11/16"-16 UN	19	19	11.89 x 1.98	9.25 x 1.78
UNP-ORM-45C-0613-MC	9/16"-18 UNF	13/16"-16 UN	19	19	11.89 x 1.98	12.42 x 1.78
UNP-ORM-45C-0811-MC	3/4"-16 UNF	11/16"-16 UN	19	24	16.36 x 2.21	12.42 x 1.78
UNP-ORM-45C-0813-MC	3/4"-16 UNF	13/16"-16 UN	19	24	16.36 x 2.21	12.42 x 1.78
UNP-ORM-45C-0816-MC	3/4"-16 UNF	1"–14 UNS	27	24	16.36 x 2.21	15.60 x 1.78
UNP-ORM-45C-1013-MC	7/8"-14 UNF	13/16"-16 UN	27	27	19.18 x 2.46	12.42 x 1.78
UNP-ORM-45C-1016-MC	7/8"-14 UNF	1"–14 UNS	27	27	19.18 x 2.46	15.60 x 1.78
UNP-ORM-45C-1019-MC	7/8"-14 UNF	1.3/16"–12 UN	30	27	19.18 x 2.46	18.77 x 1.78
UNP-ORM-45C-1216-MC	1.1/16"–12 UN	1"–14 UNS	30	36	23.47 x 2.95	15.60 x 1.78
UNP-ORM-45C-1219-MC	1.1/16"–12 UN	1.3/16"–12 UN	30	35	23.47 x 2.95	18.77 x 1.78
UNP-ORM-45C-1223-MC	1.1/16"–12 UN	1.7/16"–12 UN	36	36	23.47 x 2.95	23.52 x 1.78
UNP-ORM-45C-1619-MC	1.5/16"–12 UN	1.3/16"–12 UN	37	41	29.74 x 2.95	18.77 x 1.78
UNP-ORM-45C-1623-MC	1.5/16"–12 UN	1.7/16"–12 UN	37	41	29.74 x 2.95	23.52 x 1.78
UNP-ORM-45C-2023-MC	1.5/8"–12 UN	1.7/16"–12 UN	41	48	37.47 x 3.00	23.52 x 1.78
UNP-ORM-45C-2027-MC	1.5/8"–12 UN	1.11/16"–12 UN	41	48	37.47 x 3.00	29.87 x 1.78
UNP-ORM-45C-2427-MC	1.7/8"–12 UN	1.11/16"–12 UN	48	54	43.69 x 3.00	29.87 x 1.78
UNP-ORM-45C-2432-MC	1.7/8"–12 UN	2"–12 UN	48	54	43.69 x 3.00	37.82 x 1.78

SW, S1, S2 = Width across flats

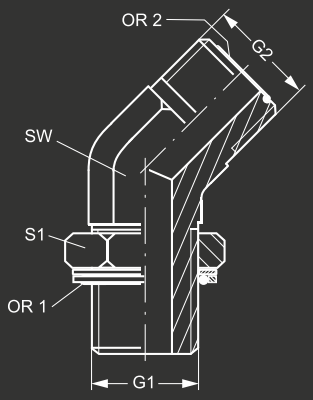
Product Version: Stainless Steel (SS)

ORFS Male / Metric Male Positional 45

Screw-in socket, angle 45°



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Adjustable direction screw-in socket
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR1	OR2
MMP-ORM-45C-1209-MC	M 12 x 1.5	9/16"-18 UNF	14	17	9.30 x 2.30	7.65 x 1.78
MMP-ORM-45C-1611-MC	M 16 x 1.5	11/16"–16 UN	19	19	13.30 x 2.30	9.25 x 1.78
MMP-ORM-45C-1813-MC	M 18 x 1.5	13/16"–16 UN	19	22	15.30 x 2.30	12.42 x 1.78
MMP-ORM-45C-2216-MC	M 22 x 1.5	1"-14 UNS	27	27	19.30 x 2.30	15.60 x 1.78
MMP-ORM-45C-2719-MC	M 27 x 2	1.3/16"–12 UN	30	32	23.47 x 2.95	18.77 x 1.78
MMP-ORM-45C-3323-MC	M 33 x 2	1.7/16"–12 UN	36	38	29.74 x 2.95	23.52 x 1.78
MMP-ORM-45C-4227-MC	M 42 x 2	1.11/16"–12 UN	41	50	38.00 x 3.00	29.87 x 1.78
MMP-ORM-45C-4832-MC	M 48 x 2	2"–12 UN	50	55	44.04 x 3.53	37.82 x 1.78

SW, S1, S2 = Width across flats

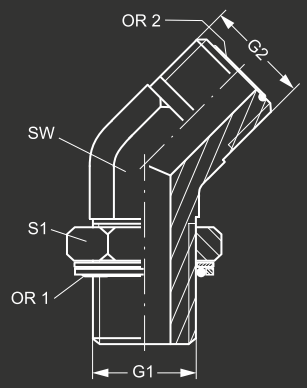
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ORFS Male / BSPP Male Positional 45

Screw-in socket, angle 45°



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Adjustable direction screw-in socket
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™

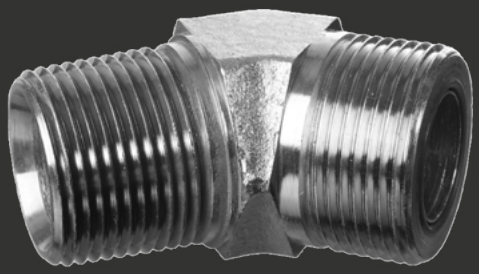


Identification	G1	G2	SW mm	S1	OR1	OR2
BPP-ORM-45C-0209-MC	G 1/8"–28	9/16"–18 UNF	14	14	8.00 x 2.00	7.65 x 1.78
BPP-ORM-45C-0409-MC	G 1/4"–19	9/16"–18 UNF	19	19	10.77 x 2.62	7.65 x 1.78
BPP-ORM-45C-0411-MC	G 1/4"–19	11/16"–16 UN	19	19	10.77 x 2.62	9.25 x 1.78
BPP-ORM-45C-0611-MC	G 3/8"–19	11/16"–16 UN	19	22	13.94 x 2.62	9.25 x 1.78
BPP-ORM-45C-0613-MC	G 3/8"–19	13/16"–16 UN	19	22	13.94 x 2.62	12.42 x 1.78
BPP-ORM-45C-0811-MC	G 1/2"–14	11/16"–16 UN	27	27	17.86 x 2.62	9.25 x 1.78
BPP-ORM-45C-0813-MC	G 1/2"–14	13/16"–16 UN	27	27	17.86 x 2.62	12.42 x 1.78
BPP-ORM-45C-0816-MC	G 1/2"–14	1"–14 UNS	27	27	17.86 x 2.62	15.60 x 1.78
BPP-ORM-45C-1216-MC	G 3/4"–14	1"–14 UNS	30	36	23.47 x 2.62	15.60 x 1.78
BPP-ORM-45C-1219-MC	G 3/4"–14	1.3/16"–12 UN	30	36	23.47 x 2.62	18.77 x 1.78
BPP-ORM-45C-1619-MC	G 1"–11	1.3/16"–12 UN	36	41	29.75 x 3.53	18.77 x 1.78
BPP-ORM-45C-1623-MC	G 1"–11	1.7/16"–12 UN	36	41	29.75 x 3.53	23.52 x 1.78
BPP-ORM-45C-2027-MC	G 1.1/4"–11	1.11/16"–12 UN	41	50	37.69 x 3.53	29.87 x 1.78
BPP-ORM-45C-2432-MC	G 1.1/2"–11	2"–12 UN	50	55	44.04 x 3.53	37.82 x 1.78

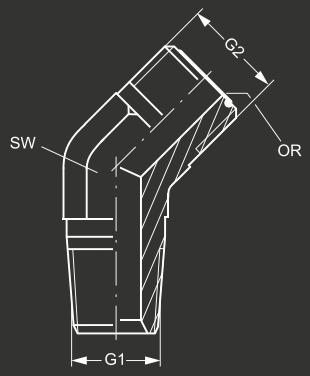
SW, S1, S2 = Width across flats

ORFS Male / NPT Male 45

Screw-in socket, angle 45°



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	OR
NTM-ORM-45C-0209-MC	1/8"–27 NPT	9/16"–18 UNF	14	7.65 x 1.78
NTM-ORM-45C-0409-MC	1/4"–18 NPT	9/16"–18 UNF	14	7.65 x 1.78
NTM-ORM-45C-0411-MC	1/4"–18 NPT	11/16"–16 UN	19	9.25 x 1.78
NTM-ORM-45C-0609-MC	3/8"–18 NPT	9/16"–18 UNF	19	7.65 x 1.78
NTM-ORM-45C-0611-MC	3/8"–18 NPT	11/16"–16 UN	19	9.25 x 1.78
NTM-ORM-45C-0613-MC	3/8"–18 NPT	13/16"–16 UN	19	12.42 x 1.78
NTM-ORM-45C-0811-MC	1/2"–14 NPT	11/16"–16 UN	22	9.25 x 1.78
NTM-ORM-45C-0813-MC	1/2"–14 NPT	13/16"–16 UN	22	12.42 x 1.78
NTM-ORM-45C-0816-MC	1/2"–14 NPT	1"–14 UNS	27	15.60 x 1.78
NTM-ORM-45C-1219-MC	3/4"–14 NPT	1.3/16"–12 UN	30	18.77 x 1.78
NTM-ORM-45C-1623-MC	1"–11.5 NPT	1.7/16"–12 UN	37	23.52 x 1.78

SW = Width across flats

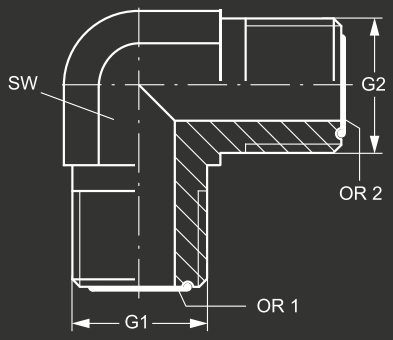
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ORFS Male / Male 90

Fitting socket, angle 90°



Connection 1:	ORFS external threads
Sealing form 1:	Flat seal with O-ring
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Fitting socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	OR1	OR2
ORM-ORM-90C-0909-MC	9/16″-18 UNF	9/16″-18 UNF	14	7.65 x 1.78	7.65 x 1.78
ORM-ORM-90C-0911-MC	9/16″-18 UNF	11/16″-16 UN	19	7.65 x 1.78	9.25 x 1.78
ORM-ORM-90C-1111-MC	11/16″-16 UN	11/16″-16 UN	19	9.25 x 1.78	9.25 x 1.78
ORM-ORM-90C-1113-MC	11/16″-16 UN	13/16″-16 UN	19	9.25 x 1.78	12.42 x 1.78
ORM-ORM-90C-1313-MC	13/16″-16 UN	13/16″-16 UN	19	12.42 x 1.78	12.42 x 1.78
ORM-ORM-90C-1319-MC	13/16″-16 UN	1.3/16″-12 UN	30	12.42 x 1.78	18.77 x 1.78
ORM-ORM-90C-1616-MC	1″–14 UNS	1″–14 UNS	27	15.60 x 1.78	15.60 x 1.78
ORM-ORM-90C-1919-MC	1.3/16″-12 UN	1.3/16″-12 UN	30	18.77 x 1.78	18.77 x 1.78
ORM-ORM-90C-2323-MC	1.7/16″-12 UN	1.7/16″-12 UN	36	23.52 x 1.78	23.52 x 1.78
ORM-ORM-90C-2727-MC	1.11/16″-12 UN	1.11/16″-12 UN	41	29.87 x 1.78	29.87 x 1.78
ORM-ORM-90C-3232-MC	2″–12 UN	2″–12 UN	48	37.82 x 1.78	37.82 x 1.78

SW = Width across flats

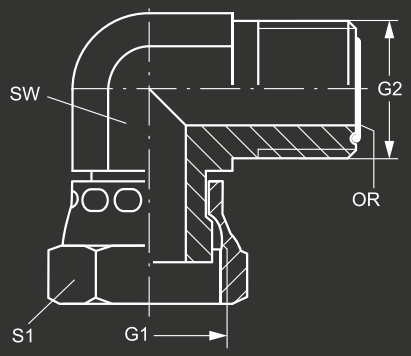
Product Version: Stainless Steel (SS)

ORFS Male / Female 90

Screw-on socket, angle 90°



Connection 1:	ORFS nut threads
Sealing form 1:	Flat sealing
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Screw-on socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm	S1	OR
ORF-ORM-90C-0909-MC	9/16"-18 UNF	14	17	7.65 x 1.78
ORF-ORM-90C-1111-MC	11/16"-16 UN	19	22	9.25 x 1.78
ORF-ORM-90C-1313-MC	13/16"-16 UN	19	24	12.42 x 1.78
ORF-ORM-90C-1616-MC	1"-14 UNS	27	30	15.60 x 1.78
ORF-ORM-90C-1919-MC	1.3/16"-12 UN	30	36	18.77 x 1.78
ORF-ORM-90C-2323-MC	1.7/16"-12 UN	36	41	23.52 x 1.78
ORF-ORM-90C-2727-MC	1.11/16"-12 UN	41	50	29.87 x 1.78
ORF-ORM-90C-3232-MC	2"-12 UN	48	60	37.82 x 1.78

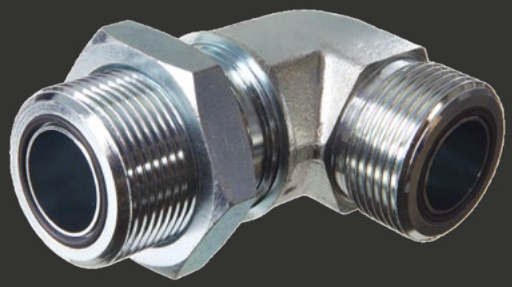
SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

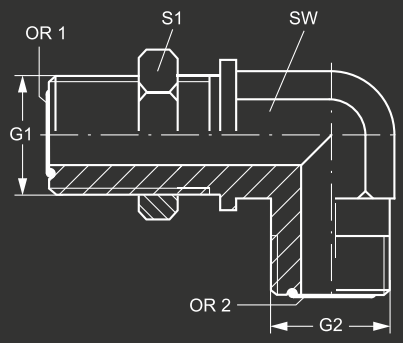
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ORFS Bulkhead 90

Bulkhead fitting socket, angle 90°



Connection 1:	ORFS external threads
Sealing form 1:	flat seal with O-ring
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Bulkhead fitting socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™

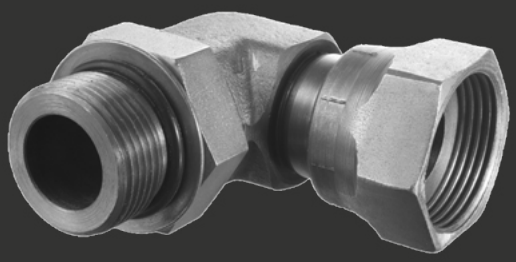


Identification	G1 + G2	SW mm	S1	OR1 + OR2
ORM-OBM-90C-0909-MC	9/16"-18 UNF	14	22	7.66 x 1.78
ORM-OBM-90C-1111-MC	11/16"–16 UN	19	27	9.25 x 1.78
ORM-OBM-90C-1313-MC	13/16"–16 UN	19	30	12.42 x 1.78
ORM-OBM-90C-1616-MC	1"–14 UNS	27	32	15.60 x 1.78
ORM-OBM-90C-1919-MC	1.3/16"–12 UN	30	38	18.77 x 1.78
ORM-OBM-90C-2323-MC	1.7/16"–12 UN	37	46	23.52 x 1.78
ORM-OBM-90C-2727-MC	1.11/16"–12 UN	41	51	29.87 x 1.78
ORM-OBM-90C-3232-MC	2"–12 UN	60	48	37.82 x 1.78

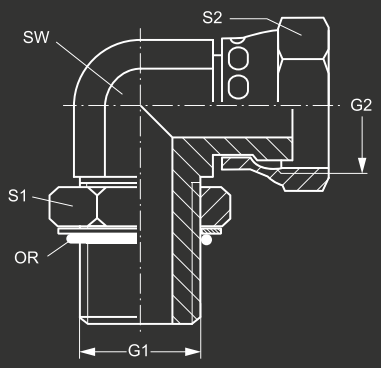
SW, S1, S2 = Width across flats

ORFS Female / UNO Male Positional 90

Screw-in socket, ORFS, angle 90°



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	ORFS nut threads
Sealing form 2:	Flat seal
Design:	Adjustable direction screw-in socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	S2	OR
UNP-ORF-90C-0409-MC	7/16"-20 UNF	9/16"-18 UNF	14	16	18	8.92 x 1.83
UNP-ORF-90C-0611-MC	9/16"-18 UNF	11/16"-16 UN	19	19	21	11.90 x 1.98
UNP-ORF-90C-0813-MC	3/4"-16 UNF	13/16"-16 UN	19	24	24	16.36 x 2.20
UNP-ORF-90C-1016-MC	7/8"-14 UNF	1"–14 UNS	27	27	29	19.18 x 2.46
UNP-ORF-90C-1219-MC	1.1/16"-12 UN	1.3/16"-12 UN	27	35	35	23.47 x 2.95
UNP-ORF-90C-1623-MC	1.5/16"-12 UN	1.7/16"-12 UN	33	41	41	29.74 x 2.95
UNP-ORF-90C-2027-MC	1.5/8"-12 UN	1.11/16"-12 UN	41	48	48	37.47 x 3.00
UNP-ORF-90C-2432-MC	1.7/8"-12 UN	2"-12 UN	48	54	57	43.69 x 3.00

SW, S1, S2 = Width across flats

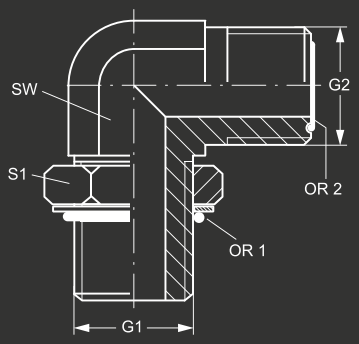
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ORFS Male / UNO Male Positional 90

Screw-in socket, ORFS, angle 90°



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Adjustable direction screw-in socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR1	OR2
UNP-ORM-90C-0409-MC	7/16"-20 UNF	9/16"-18 UNF	14	16	8.92 x 1.83	7.65 x 1.78
UNP-ORM-90C-0411-MC	7/16"-20 UNF	11/16"-16 UN	19	16	8.92 x 1.83	9.25 x 1.78
UNP-ORM-90C-0609-MC	9/16"-18 UNF	9/16"-18 UNF	19	19	11.89 x 1.98	7.65 x 1.78
UNP-ORM-90C-0611-MC	9/16"-18 UNF	11/16"-16 UN	19	19	11.89 x 1.98	9.25 x 1.78
UNP-ORM-90C-0613-MC	9/16"-18 UNF	13/16"-16 UN	19	19	11.89 x 1.98	12.42 x 1.78
UNP-ORM-90C-0811-MC	3/4"-16 UNF	11/16"-16 UN	19	24	16.36 x 2.21	9.25 x 1.78
UNP-ORM-90C-0813-MC	3/4"-16 UNF	13/16"-16 UN	19	24	16.36 x 2.21	12.42 x 1.78
UNP-ORM-90C-0816-MC	3/4"-16 UNF	1"-14 UNS	27	24	16.36 x 2.21	15.60 x 1.78
UNP-ORM-90C-0819-MC	3/4"-16 UNF	1.3/16"-12 UN	30	24	16.36 x 2.21	18.77 x 1.78
UNP-ORM-90C-1011-MC	7/8"-14 UNF	11/16"-16 UN	22	27	19.18 x 2.46	9.25 x 1.78
UNP-ORM-90C-1013-MC	7/8"-14 UNF	13/16"-16 UN	27	27	19.18 x 2.46	12.42 x 1.78
UNP-ORM-90C-1016-MC	7/8"-14 UNF	1"-14 UNS	27	27	19.18 x 2.46	15.60 x 1.78
UNP-ORM-90C-1019-MC	7/8"-14 UNF	1.3/16"-12 UN	30	27	19.18 x 2.46	18.77 x 1.78
UNP-ORM-90C-1213-MC	1.1/16"-12 UN	13/16"-16 UN	30	36	23.47 x 2.95	12.42 x 1.78
UNP-ORM-90C-1216-MC	1.1/16"-12 UN	1"-14 UNS	30	35	23.47 x 2.95	15.60 x 1.78
UNP-ORM-90C-1219-MC	1.1/16"-12 UN	1.3/16"-12 UN	30	36	23.47 x 2.95	18.77 x 1.78
UNP-ORM-90C-1223-MC	1.1/16"-12 UN	1.7/16"-12 UN	37	35	23.47 x 2.95	23.52 x 1.78
UNP-ORM-90C-1619-MC	1.5/16"-12 UN	1.3/16"-12 UN	36	41	29.74 x 2.95	18.77 x 1.78
UNP-ORM-90C-1623-MC	1.5/16"-12 UN	1.7/16"-12 UN	37	41	29.74 x 2.95	23.52 x 1.78
UNP-ORM-90C-1227-MC	1.5/16"-12 UN	1.11/16"-12 UN	41	41	29.74 x 2.95	29.87 x 1.78
UNP-ORM-90C-2023-MC	1.5/8"-12 UN	1.7/16"-12 UN	41	48	37.47 x 3.00	23.52 x 1.78
UNP-ORM-90C-2027-MC	1.5/8"-12 UN	1.11/16"-12 UN	41	48	37.47 x 3.00	29.87 x 1.78
UNP-ORM-90C-2032-MC	1.5/8"-12 UN	2"-12 UN	48	48	37.47 x 3.00	37.82 x 1.78
UNP-ORM-90C-2432-MC	1.7/8"-12 UN	2"-12 UN	48	54	43.69 x 3.00	37.82 x 1.78
UNP-ORM-90C-2427-MC	1.7/8"-12 UN	1.11/16"-12 UN	48	54	43.69 x 3.00	29.87 x 1.78

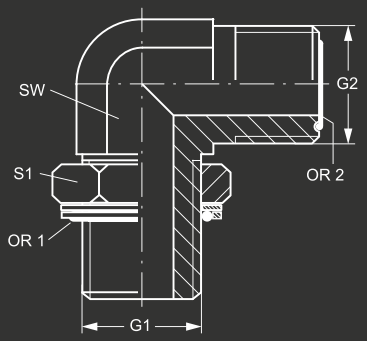
SW, S1, S2 = Width across flats
Product Version: Stainless Steel (SS)

ORFS Male / Metric Male Positional 90

Screw-in socket, angle 90°



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Adjustable direction screw-in socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR1	OR2
MMP-ORM-90C-1009-MC	M 10 x 1	9/16"-18 UNF	14	15	8.00 x 1.50	7.65 x 1.78
MMP-ORM-90C-1209-MC	M 12 x 1.5	9/16"-18 UNF	14	18	9.30 x 2.30	7.65 x 1.78
MMP-ORM-90C-1411-MC	M 14 x 1.5	11/16"-16 UN	19	20	11.30 x 2.30	9.25 x 1.78
MMP-ORM-90C-1611-MC	M 16 x 1.5	11/16"-16 UN	19	20	13.30 x 2.30	9.25 x 1.78
MMP-ORM-90C-1813-MC	M 18 x 1.5	13/16"-16 UN	19	25	15.30 x 2.30	12.42 x 1.78
MMP-ORM-90C-2213-MC	M 22 x 1.5	13/16"-16 UN	19	28	19.30 x 2.30	12.42 x 1.78
MMP-ORM-90C-2216-MC	M 22 x 1.5	1"–14 UNS	27	28	19.30 x 2.30	15.60 x 1.78
MMP-ORM-90C-2716-MC	M 27 x 2	1"–14 UNS	27	32	23.47 x 2.95	15.60 x 1.78
MMP-ORM-90C-2719-MC	M 27 x 2	1.3/16"-12 UN	30	32	23.47 x 2.95	18.77 x 1.78
MMP-ORM-90C-3319-MC	M 33 x 2	1.3/16"-12 UN	30	42	29.74 x 2.95	18.77 x 1.78
MMP-ORM-90C-3323-MC	M 33 x 2	1.7/16"-12 UN	36	42	29.74 x 2.95	23.52 x 1.78
MMP-ORM-90C-4223-MC	M 42 x 2	1.7/16"-12 UN	36	50	38.00 x 3.00	23.52 x 1.78
MMP-ORM-90C-4227-MC	M 42 x 2	1.11/16"-12 UN	41	50	38.00 x 3.00	29.87 x 1.78
MMP-ORM-90C-4827-MC	M 48 x 2	1.11/16"-12 UN	41	56	44.04 x 3.53	29.87 x 1.78
MMP-ORM-90C-4832-MC	M 48 x 2	2"–12 UN	50	56	44.04 x 3.53	37.82 x 1.78

SW, S1, S2 = Width across flats

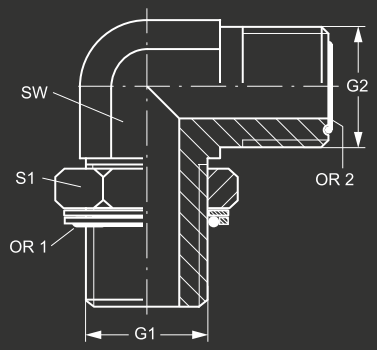
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ORFS Male / BSPP Male Positional 90

Screw-in socket, angle 90°



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Adjustable direction screw-in socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR1	OR2
BPP-ORM-90C-0209-MC	G 1/8″-28	9/16″-18 UNF	14	14	8.00 x 2.00	7.65 x 1.78
BPP-ORM-90C-0409-MC	G 1/4″-19	9/16″-18 UNF	19	19	10.77 x 2.62	7.65 x 1.78
BPP-ORM-90C-0411-MC	G 1/4″-19	11/16″-16 UN	19	19	10.77 x 2.62	9.25 x 1.78
BPP-ORM-90C-0413-MC	G 1/4″-19	13/16″-16 UN	19	19	10.77 x 2.62	12.42 x 1.78
BPP-ORM-90C-0609-MC	G 3/8″-19	9/16″-18 UNF	19	22	13.94 x 2.62	7.65 x 1.78
BPP-ORM-90C-0611-MC	G 3/8″-19	11/16″-16 UN	19	22	13.94 x 2.62	9.25 x 1.78
BPP-ORM-90C-0613-MC	G 3/8″-19	13/16″-16 UN	19	22	13.94 x 2.62	12.42 x 1.78
BPP-ORM-90C-0616-MC	G 3/8″-19	1″–14 UNS	27	22	13.94 x 2.62	15.60 x 1.78
BPP-ORM-90C-0811-MC	G 1/2″-14	11/16″-16 UN	27	27	17.86 x 2.62	9.25 x 1.78
BPP-ORM-90C-0813-MC	G 1/2″-14	13/16″-16 UN	27	27	17.86 x 2.62	12.42 x 1.78
BPP-ORM-90C-0816-MC	G 1/2″-14	1″–14 UNS	27	27	17.86 x 2.62	15.60 x 1.78
BPP-ORM-90C-0819-MC	G 1/2″-14	1.3/16″-12 UN	30	27	17.86 x 2.62	18.77 x 1.78
BPP-ORM-90C-1213-MC	G 3/4″-14	13/16″-16 UN	30	36	23.47 x 2.62	12.42 x 1.78
BPP-ORM-90C-1216-MC	G 3/4″-14	1″–14 UNS	30	36	23.47 x 2.62	15.60 x 1.78
BPP-ORM-90C-1219-MC	G 3/4″-14	1.3/16″-12 UN	30	36	23.47 x 2.62	18.77 x 1.78
BPP-ORM-90C-1223-MC	G 3/4″-14	1.7/16″-12 UN	36	36	23.47 x.2.62	23.52 x 1.78
BPP-ORM-90C-1616-MC	G 1″–11	1″–14 UNS	36	41	29.75 x 3.53	15.60 x 1.78
BPP-ORM-90C-1619-MC	G 1″–11	1.3/16″-12 UN	36	41	29.75 x 3.53	18.77 x 1.78
BPP-ORM-90C-1623-MC	G 1″–11	1.7/16″-12 UN	36	41	29.75 x 3.53	23.52 x 1.78
BPP-ORM-90C-1627-MC	G 1″–11	1.11/16″-12 UN	41	41	29.75 x 3.53	29.87 x 1.78
BPP-ORM-90C-2023-MC	G 1.1/4″–11	1.7/16″-12 UN	41	50	37.69 x 3.53	23.52 x 1.78
BPP-ORM-90C-2027-MC	G 1.1/4″–11	1.11/16″-12 UN	41	50	37.69 x 3.53	29.87 x 1.78
BPP-ORM-90C-2427-MC	G 1.1/2″–11	1.11/16″-12 UN	50	55	44.04 x 3.53	29.87 x 1.78
BPP-ORM-90C-2432-MC	G 1.1/2″–11	2″–12 UN	50	55	44.04 x 3.53	37.82 x 1.78

SW, S1, S2 = Width across flats

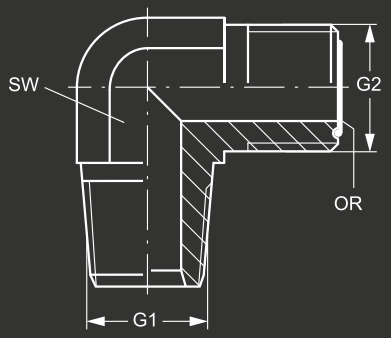
Product Version: Stainless Steel (SS)

ORFS Male / NPT Male 90

Screw-in socket, angle 90°



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW	OR
NTM-ORM-90C-0209-MC	1/8″-27 NPT	9/16″-18 UNF	14	7.65 x 1.78
NTM-ORM-90C-0409-MC	1/4″-18 NPT	9/16″-18 UNF	14	7.65 x 1.78
NTM-ORM-90C-0411-MC	1/4″-18 NPT	11/16″-16 UN	19	9.25 x 1.78
NTM-ORM-90C-0611-MC	3/8″-18 NPT	11/16″-16 UN	19	9.25 x 1.78
NTM-ORM-90C-0613-MC	3/8″-18 NPT	13/16″-16 UN	19	12.42 x 1.78
NTM-ORM-90C-0811-MC	1/2″-14 NPT	11/16″-16 UN	22	9.25 x 1.78
NTM-ORM-90C-0813-MC	1/2″-14 NPT	13/16″-16 UN	22	12.42 x 1.78
NTM-ORM-90C-0816-MC	1/2″-14 NPT	1″-14 UNS	27	15.60 x 1.78
NTM-ORM-90C-0819-MC	1/2″-14 NPT	1.3/16″-12 UN	30	18.77 x 1.78
NTM-ORM-90C-1213-MC	3/4″-14 NPT	13/16″-16 UN	30	12.42 x 1.78
NTM-ORM-90C-1216-MC	3/4″-14 NPT	1″-14 UNS	30	15.60 x 1.78
NTM-ORM-90C-1219-MC	3/4″-14 NPT	1.3/16″-12 UN	30	18.77 x 1.78
NTM-ORM-90C-1223-MC	3/4″-14 NPT	1.7/16″-12 UN	37	23.52 x 1.78
NTM-ORM-90C-1619-MC	1″-11.5 NPT	1.3/16″-12 UN	33	18.77 x 1.78
NTM-ORM-90C-1623-MC	1″-11.5 NPT	1.7/16″-12 UN	37	23.52 x 1.78
NTM-ORM-90C-2027-MC	1.1/4″-11.5 NPT	1.11/16″-12 UN	41	29.87 x 1.78
NTM-ORM-90C-2432-MC	1.1/2″-11.5 NPT	2″-12 UN	48	37.82 x 1.78

SW = Width across flats

Product Version: Stainless Steel (SS)

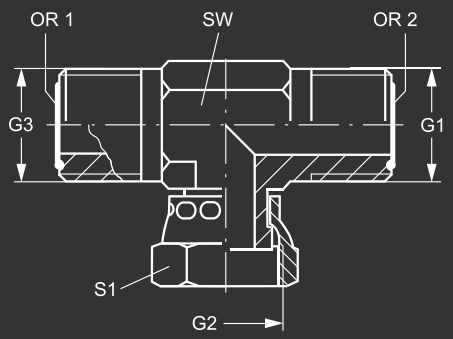
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ORFS Male Tee / ORFS Female Branch

Screw-on socket, T shaped



Connection 1:	ORFS nut threads
Sealing form 1:	Flat sealing
Connection 2+3:	ORFS external threads
Sealing form 2+3:	Flat seal with O-ring
Design:	Adjustable direction screw-on socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1	OR1 + OR2
ORM-ORM-ORF-090909-MC	9/16"-18 UNF	9/16"-18 UNF	14	17	7.66 x 1.78
ORM-ORM-ORF-111111-MC	11/16"-16 UN	11/16"-16 UN	19	22	9.25 x 1.78
ORM-ORM-ORF-131313-MC	13/16"-16 UN	13/16"-16 UN	19	24	12.42 x 1.78
ORM-ORM-ORF-161616-MC	1"–14 UNS	1"–14 UNS	27	30	15.60 x 1.78
ORM-ORM-ORF-191919-MC	1.3/16"–12 UN	1.3/16"–12 UN	30	35	18.77 x 1.78
ORM-ORM-ORF-232323-MC	1.7/16"–12 UN	1.7/16"–12 UN	37	41	23.52 x 1.78
ORM-ORM-ORF-272727-MC	1.11/16"–12 UN	1.11/16"–12 UN	41	48	29.87 x 1.78
ORM-ORM-ORF-323232-MC	2"–12 UN	2"–12 UN	48	55	37.82 x 1.78

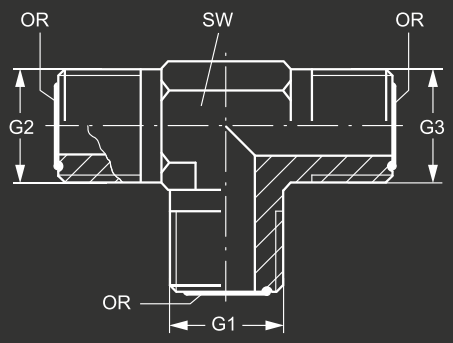
SW, S1, S2 = Width across flats

ORFS Male Tee

Fitting socket, T shaped



Connection 1-3:	ORFS external threads
Sealing form 1-3:	Flat seal with O-ring
Design:	Fitting socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 - G3	SW mm	OR1 - OR3
ORM-ORM-ORM-090909-MC	9/16"-18 UNF	14	7.65 x 1.78
ORM-ORM-ORM-111111-MC	11/16"-16 UN	19	9.25 x 1.78
ORM-ORM-ORM-131313-MC	13/16"-16 UN	19	12.42 x 1.78
ORM-ORM-ORM-161616-MC	1"-14 UNS	27	15.60 x 1.78
ORM-ORM-ORM-191919-MC	1.3/16"-12 UN	30	18.77 x 1.78
ORM-ORM-ORM-232323-MC	1.7/16"-12 UN	36	23.52 x 1.78
ORM-ORM-ORM-272727-MC	1.11/16"-12 UN	41	29.87 x 1.78
ORM-ORM-ORM-323232-MC	2"-12 UN	48	37.82 x 1.78

SW = Width across flats

Product Version: Stainless Steel (SS)

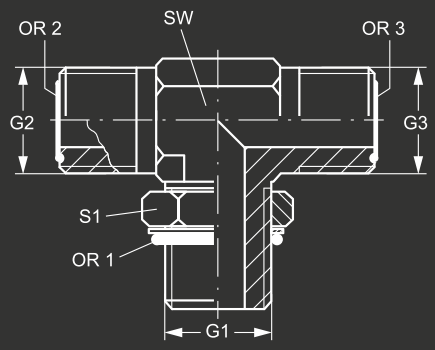
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ORFS Male Tee / UNO Male Positional Branch

Screw-in socket, T shaped



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2+3:	ORFS external threads
Sealing form 2+3:	Flat seal with O-ring
Design:	Adjustable direction screw-on socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™

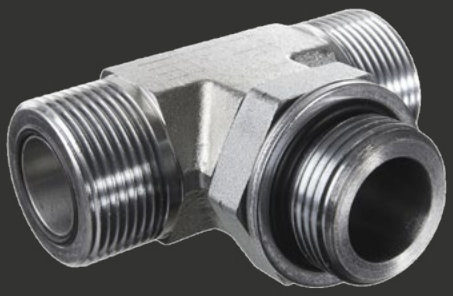


Identification	G1	G2 + G3	SW mm	S1	OR1	OR2 + OR3
ORM-ORM-UNP-090904-MC	7/16"-20 UNF	9/16"-18 UNF	14	16	8.92 x 1.83	7.65 x 1.78
ORM-ORM-UNP-111106-MC	9/16"-18 UNF	11/16"–16 UN	19	19	11.89 x 1.98	9.25 x 1.78
ORM-ORM-UNP-131308-MC	3/4"-16 UNF	13/16"–16 UN	19	24	16.36 x 2.21	12.42 x 1.78
ORM-ORM-UNP-161610-MC	7/8"-14 UNF	1"–14 UNS	27	27	19.18 x 2.46	15.60 x 1.78
ORM-ORM-UNP-191912-MC	1.1/16"–12 UN	1.3/16"–12 UN	30	36	23.47 x 2.95	18.77 x 1.78
ORM-ORM-UNP-232316-MC	1.5/16"–12 UN	1.7/16"–12 UN	37	41	29.74 x 2.95	23.52 x 1.78
ORM-ORM-UNP-272720-MC	1.5/8"–12 UN	1.11/16"–12 UN	41	48	37.47 x 3.00	29.87 x 1.78
ORM-ORM-UNP-323224-MC	1.7/8"–12 UN	2"–12 UN	48	54	43.69 x 3.00	37.82 x 1.78

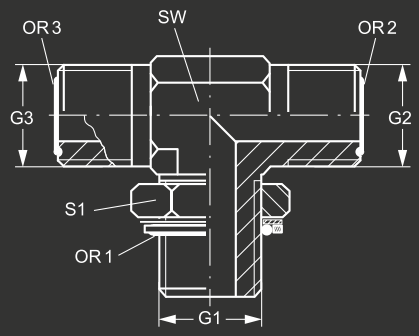
SW, S1, S2 = Width across flats

ORFS Male Tee / Metric Male Positional Branch

Screw-in socket, T shaped



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2+3:	ORFS external threads
Sealing form 2+3:	Flat seal with O-ring
Design:	Adjustable direction screw-on socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



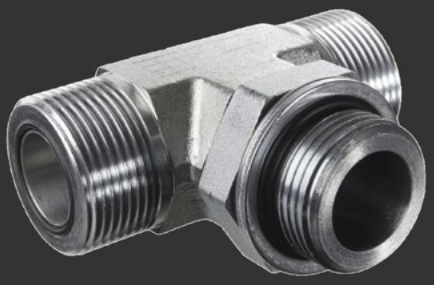
Identification	G1	G2 + G3	SW mm	S1	OR1	OR2 + OR3
ORM-ORM-MMP-090912-MC	M 12 x 1.5	9/16"-18 UNF	14	17	9.4 x 2.1	7.66 x 1.78
ORM-ORM-MMP-111116-MC	M 16 x 1.5	11/16"-16 UN	19	22	13.4 x 2.1	9.25 x 1.78
ORM-ORM-MMP-131318-MC	M 18 x 1.5	13/16"-16 UN	19	24	15.4 x 2.1	12.42 x 1.78
ORM-ORM-MMP-161622-MC	M 22 x 1.5	1"–14 UNS	27	27	19.4 x 2.1	15.60 x 1.78
ORM-ORM-MMP-191927-MC	M 27 x 2	1.3/16"-12 UN	30	32	23.7 x 2.8	18.77 x 1.78
ORM-ORM-MMP-232333-MC	M 33 x 2	1.7/16"-12 UN	36	41	29.7 x 2.8	23.52 x 1.78
ORM-ORM-MMP-272742-MC	M 42 x 2	1.11/16"-12 UN	41	50	38.7 x 2.8	29.87 x 1.78
ORM-ORM-MMP-323248-MC	M 48 x 2	2"–12 UN	48	55	46.7 x 2.8	37.82 x 1.78

SW, S1, S2 = Width across flats

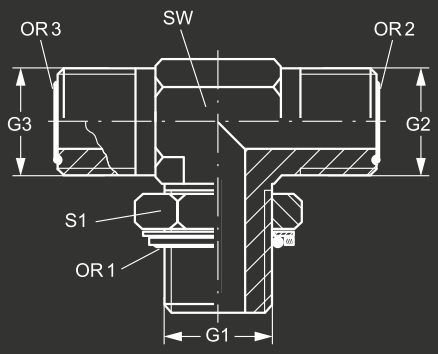
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ORFS Male Tee / BSPP Male Positional Branch

Screw-in socket, T shaped



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2+3:	ORFS external threads
Sealing form 2+3:	Flat seal with O-ring
Design:	Adjustable direction screw-on socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1	OR1	OR2 + OR3
ORM-ORM-BPP-090902-MC	G 1/8″-28	9/16″-18 UNF	14	14	8.00 x 2.00	7.65 x 1.78
ORM-ORM-BPP-090904-MC	G 1/4″-19	9/16″-18 UNF	19	19	10.77 x 2.62	7.65 x 1.78
ORM-ORM-BPP-111104-MC	G 1/4″-19	11/16″-16 UN	19	19	10.70 x 2.62	9.25 x 1.78
ORM-ORM-BPP-111106-MC	G 3/8″-19	11/16″-16 UN	19	22	13.94 x 2.62	9.25 x 1.78
ORM-ORM-BPP-131306-MC	G 3/8″-19	13/16″-16 UN	19	22	13.94 x 2.62	12.42 x 1.78
ORM-ORM-BPP-131308-MC	G 1/2″-14	13/16″-16 UN	27	27	17.86 x 2.62	12.42 x 1.78
ORM-ORM-BPP-161608-MC	G 1/2″-14	1″-14 UNS	27	27	17.86 x 2.62	15.60 x 1.78
ORM-ORM-BPP-161612-MC	G 3/4″-14	1″-14 UNS	30	36	23.47 x 2.62	15.60 x 1.78
ORM-ORM-BPP-191912-MC	G 3/4″-14	1.3/16″-12 UN	30	36	23.47 x 2.62	12.42 x 1.78
ORM-ORM-BPP-232316-MC	G 1″-11	1.7/16″-12 UN	36	41	29.75 x 3.53	23.52 x 1.78
ORM-ORM-BPP-272720-MC	G 1.1/4″-11	1.11/16″-12 UN	41	50	37.69 x 3.53	29.87 x 1.78
ORM-ORM-BPP-323224-MC	G 1.1/2″-11	2″-12 UN	50	55	44.04 x 3.53	37.82 x 1.78

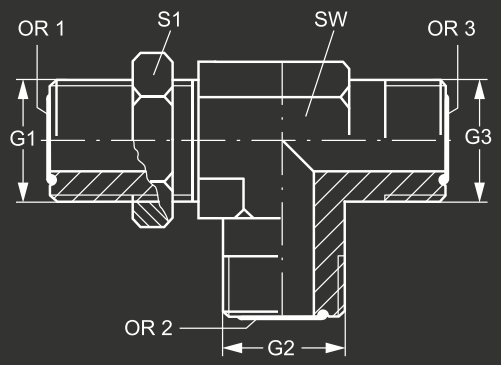
SW, S1, S2 = Width across flats

ORFS Bulkhead Running Tee

Bulkhead fitting socket, T shaped



Connection 1-3:	ORFS external threads
Sealing form 1-3:	Flat seal with O-ring
Design:	Adjustable direction bulkhead fitting socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 - G3	OR1 - OR3	SW mm	S1
ORB-ORM-ORM-090909-MC	9/16"-18 UNF	7.66 x 1.78	14	22
ORB-ORM-ORM-111111-MC	11/16"–16 UN	9.25 x 1.78	19	27
ORB-ORM-ORM-131313-MC	13/16"–16 UN	12.42 x 1.78	19	30
ORB-ORM-ORM-161616-MC	1"-14 UNS	15.60 x 1.78	27	32
ORB-ORM-ORM-191919-MC	1.3/16"–12 UN	18.77 x 1.78	30	38
ORB-ORM-ORM-232323-MC	1.7/16"–12 UN	23.52 x 1.78	37	46
ORB-ORM-ORM-272727-MC	1.11/16"–12 UN	29.87 x 1.78	41	51
ORB-ORM-ORM-323232-MC	2"–12 UN	37.82 x 1.78	48	60

SW, S1, S2 = Width across flats

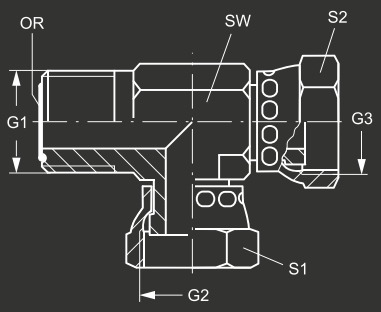
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ORFS Female Tee / ORFS Male Run

Screw-in socket, L shaped



Connection 1:	ORFS external threads
Sealing form 1:	Flat seal with O-ring
Connection 2+3:	ORFS nut threads
Sealing form 2+3:	Flat seal
Design:	Adjustable direction screw-on socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™

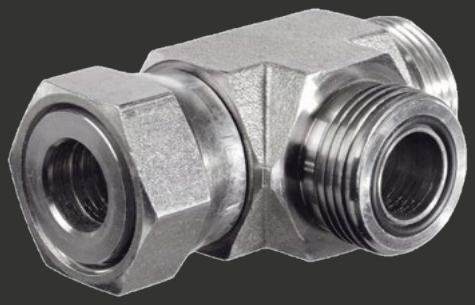


Identification	G1	G2 + G3	SW mm	S1 + S2 mm	OR O - Ring
ORM-ORF-ORF-090909-MC	9/16"-18 UNF	9/16"-18 UNF	14	17	7.65 x 1.78
ORM-ORF-ORF-111111-MC	11/16"-16 UN	11/16"-16 UN	19	22	9.25 x 1.78
ORM-ORF-ORF-131313-MC	13/16"-16 UN	13/16"-16 UN	19	24	12.42 x 1.78
ORM-ORF-ORF-161616-MC	1"-14 UNS	1"-14 UNS	27	30	15.60 x 1.78
ORM-ORF-ORF-191919-MC	1.3/16"-12 UN	1.3/16"-12 UN	30	35	18.77 x 1.78
ORM-ORF-ORF-232323-MC	1.7/16"-12 UN	1.7/16"-12 UN	37	41	23.52 x 1.78

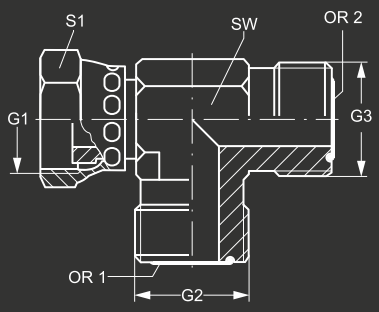
SW, S1, S2 = Width across flats

ORFS Male Tee / ORFS Female Run

Screw-on socket, L shaped



Connection 1:	ORFS external threads
Sealing form 1:	Flat seal with O-ring
Connection 2+3:	ORFS nut threads
Sealing form 2+3:	Flat seal
Design:	Adjustable direction screw-on socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1	OR1 + OR2
ORF-ORM-ORM-090909-MC	9/16"-18 UNF	9/16"-18 UNF	14	17	7.66 x 1.78
ORF-ORM-ORM-111111-MC	11/16"-16 UN	11/16"-16 UN	19	22	9.25 x 1.78
ORF-ORM-ORM-131313-MC	13/16"-16 UN	13/16"-16 UN	19	24	12.42 x 1.78
ORF-ORM-ORM-161616-MC	1"-14 UNS	1"-14 UNS	27	30	15.60 x 1.78
ORF-ORM-ORM-191919-MC	1.3/16"-12 UN	1.3/16"-12 UN	30	36	18.77 x 1.78
ORF-ORM-ORM-232323-MC	1.7/16"-12 UN	1.7/16"-12 UN	36	41	23.52 x 1.78
ORF-ORM-ORM-272727-MC	1.11/16"-12 UN	1.11/16"-12 UN	41	50	29.87 x 1.78
ORF-ORM-ORM-323232-MC	2"-12 UN	2"-12 UN	48	60	37.82 x 1.78

SW, S1, S2 = Width across flats

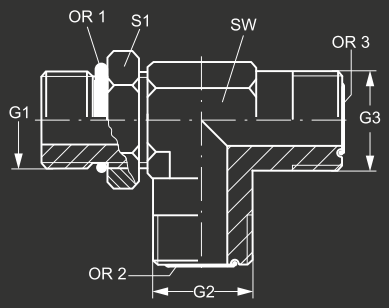
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ORFS Male Tee / UNO Male Positional Run

Screw-in socket, L shaped



Connection 1:	UN / UNF external threads
Sealing form 1:	Shape F
Connection 2+3:	ORFS external threads
Sealing form 2+3:	Flat seal with O-ring
Design:	Adjustable direction screw-in socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1	OR1	OR2 + OR3
UNP-ORM-ORM-040909-MC	7/16"-20 UNF	9/16"-18 UNF	14	16	8.92 x 1.83	7.66 x 1.78
UNP-ORM-ORM-061111-MC	9/16"-18 UNF	11/16"-16 UN	19	19	11.89 x 1.98	9.25 x 1.78
UNP-ORM-ORM-081313-MC	3/4"-16 UNF	13/16"-16 UN	19	24	16.36 x 2.21	12.42 x 1.78
UNP-ORM-ORM-101616-MC	7/8"-14 UNF	1"-14 UNS	27	27	19.18 x 2.46	15.60 x 1.78
UNP-ORM-ORM-121919-MC	1.1/16"-12 UN	1.3/16"-12 UN	30	35	23.47 x 2.95	18.77 x 1.78
UNP-ORM-ORM-162323-MC	1.5/16"-12 UN	1.7/16"-12 UN	36	41	29.74 x 2.95	23.52 x 1.78
UNP-ORM-ORM-202727-MC	1.5/8"-12 UN	1.11/16"-12 UN	41	48	37.47 x 3.00	29.87 x 1.78
UNP-ORM-ORM-243232-MC	1.7/8"-12 UN	2"-12 UN	48	54	43.69 x 3.00	37.82 x 1.78

SW = Width across flats

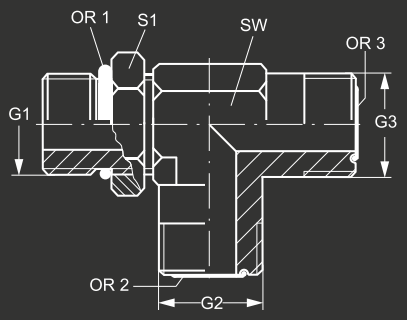
Product Version: Stainless Steel (SS)

ORFS Male Tee / Metric Male Positional OS Run

Screw-in socket, L shaped



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	O-ring seal on screw-in socket
Connection 2+3:	ORFS external threads
Sealing form 2+3:	Flat seal with O-ring
Design:	Adjustable direction screw-in socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1	OR1	OR2 + OR3
MMP/OS-ORM-ORM-120909-MC	M 12 x 1.5	9/16"-18 UNF	14	17	8.2 x 1.5	7.65 x 1.78
MMP/OS-ORM-ORM-161111-MC	M 16 x 1.5	11/16"–16 UN	19	22	13.4 x 2.1	9.25 x 1.78
MMP/OS-ORM-ORM-181313-MC	M 18 x 1.5	13/16"–16 UN	19	24	15.4 x 2.1	12.42 x 1.78
MMP/OS-ORM-ORM-221616-MC	M 22 x 1.5	1"–14 UNS	27	27	19.4 x 2.1	15.60 x 1.78
MMP/OS-ORM-ORM-271919-MC	M 27 x 2	1.3/16"–12 UN	30	32	23.7 x 2.8	18.77 x 1.78
MMP/OS-ORM-ORM-332323-MC	M 33 x 2	1.7/16"–12 UN	36	41	29.7 x 2.8	23.52 x 1.78
MMP/OS-ORM-ORM-422727-MC	M 42 x 2	1.11/16"–12 UN	41	50	38.7 x 2.8	29.87 x 1.78
MMP/OS-ORM-ORM-483232-MC	M 48 x 2	2"–12 UN	48	55	46.7 x 2.8	37.82 x 1.78

SW, S1, S2 = Width across flats

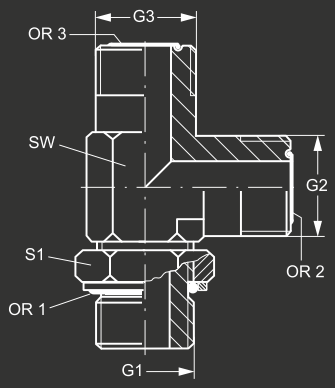
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ORFS Male Tee / Metric Male Positional Run

Screw-in socket, L shaped



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2+3:	ORFS external threads
Sealing form 2+3:	Flat seal with O-ring
Design:	Adjustable direction screw-in socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™

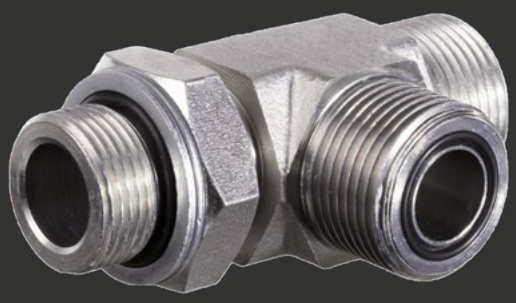


Identification	G1	G2 + G3	SW mm	S1	OR1	OR2 + OR3
MMP-ORM-ORM-120909-MC	M 12 x 1.5	9/16"-18 UNF	14	17	9.4 x 2.1	7.66 x 1.78
MMP-ORM-ORM-161111-MC	M 16 x 1.5	11/16"-16 UN	19	22	13.4 x 2.1	9.25 x 1.78
MMP-ORM-ORM-181313-MC	M 18 x 1.5	13/16"-16 UN	19	24	15.4 x 2.1	12.42 x 1.78
MMP-ORM-ORM-221616-MC	M 22 x 1.5	1"-14 UNS	27	27	19.4 x 2.1	15.60 x 1.78
MMP-ORM-ORM-271919-MC	M 27 x 2	1.3/16"-12 UN	30	32	23.7 x 2.8	18.77 x 1.78
MMP-ORM-ORM-332323-MC	M 33 x 2	1.7/16"-12 UN	36	41	29.7 x 2.8	23.52 x 1.78
MMP-ORM-ORM-422727-MC	M 42 x 2	1.11/16"-12 UN	41	50	38.7 x 2.8	29.87 x 1.78
MMP-ORM-ORM-483232-MC	M 48 x 2	2"-12 UN	48	55	46.7 x 2.8	37.82 x 1.78

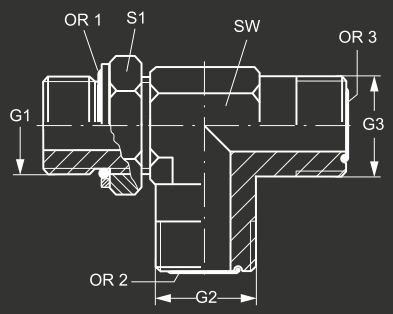
SW, S1, S2 = Width across flats

ORFS Male Tee / BSPP Male Positional Run

Screw-in socket, L shaped



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2+3:	ORFS external threads
Sealing form 2+3:	Flat seal with O-ring
Design:	Adjustable direction screw-in socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1	OR1	OR2 + OR3
BPP-ORM-ORM-020909-MC	G 1/8″–28	9/16″–18 UNF	14	14	8.00 x 2.00	7.65 x 1.78
BPP-ORM-ORM-040909-MC	G 1/4″–19	9/16″–18 UNF	19	19	10.77 x 2.62	7.65 x 1.78
BPP-ORM-ORM-041111-MC	G 1/4″–19	11/16″–16 UN	19	19	10.77 x 2.62	9.25 x 1.78
BPP-ORM-ORM-061111-MC	G 3/8″–19	11/16″–16 UN	19	22	13.94 x 2.62	9.25 x 1.78
BPP-ORM-ORM-061313-MC	G 3/8″–19	13/16″–16 UN	19	22	13.94 x 2.62	12.42 x 1.78
BPP-ORM-ORM-081313-MC	G 1/2″–14	13/16″–16 UN	27	27	17.86 x 2.62	12.42 x 1.78
BPP-ORM-ORM-081616-MC	G 1/2″–14	1″–14 UNS	27	27	17.86 x 2.62	15.60 x 1.78
BPP-ORM-ORM-121616-MC	G 3/4″–14	1″–14 UNS	30	36	23.47 x 2.62	15.60 x 1.78
BPP-ORM-ORM-121919-MC	G 3/4″–14	1.3/16″–12 UN	30	36	23.47 x 2.62	18.77 x 1.78
BPP-ORM-ORM-161919-MC	G 1″–11	1.3/16″–12 UN	36	41	29.75 x 3.53	18.77 x 1.78
BPP-ORM-ORM-162323-MC	G 1″–11	1.7/16″–12 UN	36	41	29.75 x 3.53	23.52 x 1.78
BPP-ORM-ORM-202727-MC	G 1.1/4″–11	1.11/16″–12 UN	41	50	37.69 x 3.53	29.87 x 1.78
BPP-ORM-ORM-243232-MC	G 1.1/2″–11	2″–12 UN	50	55	44.04 x 3.53	37.82 x 1.78

SW, S1, S2 = Width across flats

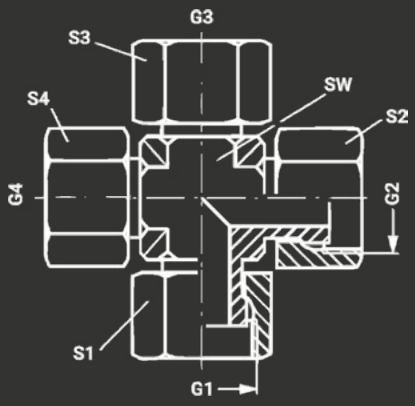
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ORFS Female Cross

Connector, cross shaped



Connection 1-4:	ORFS nut threads
Sealing form 1-4:	Flat seal
Design:	Connectors
Construction:	K shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 - G4	SW mm	S1 - S4 mm
ORF-ORF-ORF-ORF-09090909-MC	9/16"-18 UNF	14	17
ORF-ORF-ORF-ORF-11111111-MC	11/16"-16 UN	19	22
ORF-ORF-ORF-ORF-13131313-MC	13/16"-16 UN	19	24
ORF-ORF-ORF-ORF-16161616-MC	1"-14 UNS	27	30
ORF-ORF-ORF-ORF-19191919-MC	1.3/16"-12 UN	30	36
ORF-ORF-ORF-ORF-23232323-MC	1.7/16"-12 UN	37	41

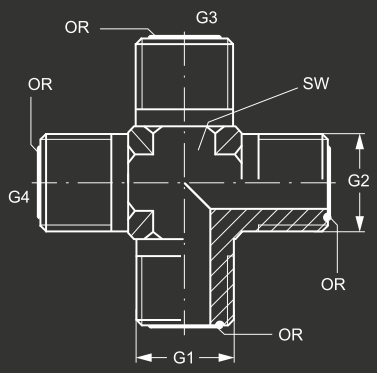
SW, S1, S2 = Width across flats

ORFS Male Cross

Fitting socket, cross shaped



Connection 1-4:	ORFS external threads
Sealing form 1-4:	Flat seal with O-ring
Design:	Fitting socket
Construction:	K shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 - G4	SW mm	OR1 - OR4
ORM-ORM-ORM-ORM-09090909-MC	9/16"-18 UNF	14	7.66 x 1.78
ORM-ORM-ORM-ORM-11111111-MC	11/16"–16 UN	19	9.25 x 1.78
ORM-ORM-ORM-ORM-13131313-MC	13/16"–16 UN	19	12.42 x 1.78
ORM-ORM-ORM-ORM-16161616-MC	1"–14 UNS	27	15.60 x 1.78
ORM-ORM-ORM-ORM-19191919-MC	1.3/16"–12 UN	30	18.77 x 1.78
ORM-ORM-ORM-ORM-23232323-MC	1.7/16"–12 UN	36	23.52 x 1.78
ORM-ORM-ORM-ORM-27272727-MC	1.11/16"–12 UN	41	29.87 x 1.78
ORM-ORM-ORM-ORM-32323232-MC	2"–12 UN	48	37.82 x 1.78

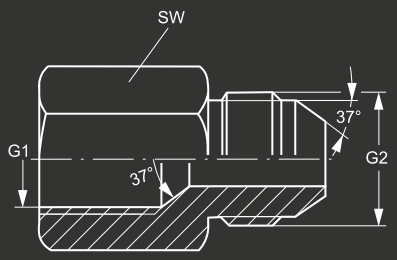
SW = Width across flats

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JIC Fixed Female / Male
Connectors



Connection 1:	UN / UNF inner thread
Sealing form 1:	74° inner cone
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
JFF-JIM-0406-MC	7/16"-20 UNF	9/16"-18 UNF	17
JFF-JIM-0408-MC	7/16"-20 UNF	3/4"-16 UNF	22
JFF-JIM-0410-MC	7/16"-20 UNF	7/8"-14 UNF	24
JFF-JIM-0504-MC	1/2"-20 UNF	7/16"-20 UNF	17
JFF-JIM-0506-MC	1/2"-20 UNF	9/16"-18 UNF	17
JFF-JIM-0508-MC	1/2"-20 UNF	3/4"-16 UNF	17
JFF-JIM-0604-MC	9/16"-18 UNF	7/16"-20 UNF	19
JFF-JIM-0605-MC	9/16"-18 UNF	1/2"-20 UNF	19
JFF-JIM-0608-MC	9/16"-18 UNF	3/4"-16 UNF	19
JFF-JIM-0804-MC	3/4"-16 UNF	7/16"-20 UNF	22
JFF-JIM-0806-MC	3/4"-16 UNF	9/16"-18 UNF	22
JFF-JIM-0810-MC	3/4"-16 UNF	7/8"-14 UNF	24
JFF-JIM-0812-MC	3/4"-16 UNF	1.1/16"-12 UN	22
JFF-JIM-1004-MC	7/8"-14 UNF	7/16"-20 UNF	27
JFF-JIM-1006-MC	7/8"-14 UNF	9/16"-18 UNF	27
JFF-JIM-1008-MC	7/8"-14 UNF	3/4"-16 UNF	27
JFF-JIM-1204-MC	1.1/16"-12 UN	7/16"-20 UNF	32
JFF-JIM-1206-MC	1.1/16"-12 UN	9/16"-18 UNF	32
JFF-JIM-1208-MC	1.1/16"-12 UN	3/4"-16 UNF	32
JFF-JIM-1210-MC	1.1/16"-12 UN	7/8"-14 UNF	32
JFF-JIM-1608-MC	1.5/16"-12 UN	3/4"-16 UNF	41
JFF-JIM-1610-MC	1.5/16"-12 UN	7/8"-14 UNF	41
JFF-JIM-1612-MC	1.5/16"-12 UN	1.1/16"-12 UN	41
JFF-JIM-2012-MC	1.5/8"-12 UN	1.1/16"-12 UN	50
JFF-JIM-2016-MC	1.5/8"-12 UN	1.5/16"-12 UN	50
JFF-JIM-2420-MC	1.7/8"-12 UN	1.5/8"-12 UN	60
JFF-JIM-3224-MC	2.1/2"-12 UN	1.7/8"-12 UN	75

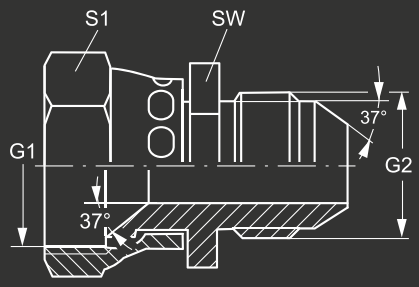
SW = Width across flats

JIC Swivel Female / Male

Connectors



Connection 1:	UN / UNF inner thread
Sealing form 1:	74° inner cone
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1
JIF-JIM-0404-MC	7/16"-20 UNF	7/16"-20 UNF	12	17
JIF-JIM-0406-MC	7/16"-20 UNF	9/16"-18 UNF	17	17
JIF-JIM-0504-MC	1/2"-20 UNF	7/16"-20 UNF	14	17
JIF-JIM-0505-MC	1/2"-20 UNF	1/2"-20 UNF	14	17
JIF-JIM-0604-MC	9/16"-18 UNF	7/16"-20 UNF	17	17
JIF-JIM-0605-MC	9/16"-18 UNF	1/2"-20 UNF	17	19
JIF-JIM-0606-MC	9/16"-18 UNF	9/16"-18 UNF	17	19
JIF-JIM-0608-MC	9/16"-18 UNF	3/4"-16 UNF	22	19
JIF-JIM-0804-MC	3/4"-16 UNF	7/16"-20 UNF	19	22
JIF-JIM-0805-MC	3/4"-16 UNF	1/2"-20 UNF	22	22
JIF-JIM-0806-MC	3/4"-16 UNF	9/16"-18 UNF	19	22
JIF-JIM-0808-MC	3/4"-16 UNF	3/4"-16 UNF	22	24
JIF-JIM-0810-MC	3/4"-16 UNF	7/8"-14 UNF	24	24
JIF-JIM-0812-MC	3/4"-16 UNF	1.1/16"–12 UN	24	24
JIF-JIM-1004-MC	7/8"-14 UNF	7/16"-20 UNF	19	27
JIF-JIM-1005-MC	7/8"-14 UNF	1/2"-20 UNF	19	27
JIF-JIM-1006-MC	7/8"-14 UNF	9/16"-18 UNF	24	27
JIF-JIM-1008-MC	7/8"-14 UNF	3/4"-16 UNF	22	27
JIF-JIM-1010-MC	7/8"-14 UNF	7/8"-14 UNF	24	27
JIF-JIM-1012-MC	7/8"-14 UNF	1.1/16"–12 UN	28	27
JIF-JIM-1204-MC	1.1/16"–12 UN	7/16"-20 UNF	24	32
JIF-JIM-1205-MC	1.1/16"–12 UN	1/2"-20 UNF	24	32
JIF-JIM-1206-MC	1.1/16"–12 UN	9/16"-18 UNF	27	32
JIF-JIM-1208-MC	1.1/16"–12 UN	3/4"-16 UNF	29	32
JIF-JIM-1210-MC	1.1/16"–12 UN	7/8"-14 UNF	27	32
JIF-JIM-1212-MC	1.1/16"–12 UN	1.1/16"–12 UN	32	32
JIF-JIM-1216-MC	1.1/16"–12 UN	1.5/16"–12 UN	27	32
JIF-JIM-1412-MC	1.3/16"–12 UN	1.1/16"–12 UN	32	35

JIC Swivel Female / Male

Connectors

Identification	G1	G2	SW mm	S1
JIF-JIM-1608-MC	1.5/16"–12 UN	3/4"-16 UNF	36	41
JIF-JIM-1610-MC	1.5/16"–12 UN	7/8"-14 UNF	36	41
JIF-JIM-1612-MC	1.5/16"–12 UN	1.1/16"–12 UN	36	41
JIF-JIM-1614-MC	1.5/16"–12 UN	1.3/16"–12 UN	36	41
JIF-JIM-1616-MC	1.5/16"–12 UN	1.5/16"–12 UN	36	41
JIF-JIM-2010-MC	1.5/8"–12 UN	7/8"-14 UNF	46	50
JIF-JIM-2012-MC	1.5/8"–12 UN	1.1/16"–12 UN	41	41
JIF-JIM-2014-MC	1.5/8"–12 UN	1.3/16"–12 UN	46	50
JIF-JIM-2016-MC	1.5/8"–12 UN	1.5/16"–12 UN	46	50
JIF-JIM-2020-MC	1.5/8"–12 UN	1.5/8"–12 UN	46	50
JIF-JIM-2420-MC	1.7/8"–12 UN	1.5/8"–12 UN	50	55
JIF-JIM-2424-MC	1.7/8"–12 UN	1.7/8"–12 UN	50	55
JIF-JIM-3224-MC	2.1/2"–12 UN	1.7/8"–12 UN	65	70

SW, S1, S2 = Width across flats

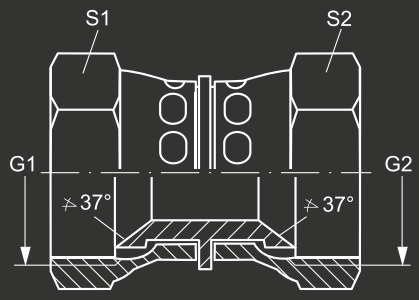
Product Version: Stainless Steel (SS)

JIC Swivel Female / Female

Connectors



Connection 1:	UN / UNF inner thread
Sealing form 1:	74° inner cone
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	S1	S2
JIF-JIF-0404-MC	7/16″-20 UNF	7/16″-20 UNF	14	14
JIF-JIF-0505-MC	1/2″-20 UNF	1/2″-20 UNF	17	17
JIF-JIF-0604-MC	9/16″-18 UNF	7/16″-20 UNF	19	14
JIF-JIF-0605-MC	9/16″-18 UNF	1/2″-20 UNF	19	17
JIF-JIF-0606-MC	9/16″-18 UNF	9/16″-18 UNF	19	19
JIF-JIF-0806-MC	3/4″-16 UNF	9/16″-18 UNF	22	19
JIF-JIF-0808-MC	3/4″-16 UNF	3/4″-16 UNF	22	22
JIF-JIF-1006-MC	7/8″-14 UNF	9/16″-18 UNF	27	19
JIF-JIF-1008-MC	7/8″-14 UNF	3/4″-16 UNF	27	22
JIF-JIF-1010-MC	7/8″-14 UNF	7/8″-14 UNF	27	27
JIF-JIF-1212-MC	1.1/16″–12 UN	1.1/16″–12 UN	32	32
JIF-JIF-1612-MC	1.5/16″–12 UN	1.1/16″–12 UN	41	32
JIF-JIF-1616-MC	1.5/16″–12 UN	1.5/16″–12 UN	41	41
JIF-JIF-2020-MC	1.5/8″–12 UN	1.5/8″–12 UN	50	50
JIF-JIF-2424-MC	1.7/8″–12 UN	1.7/8″–12 UN	60	60

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

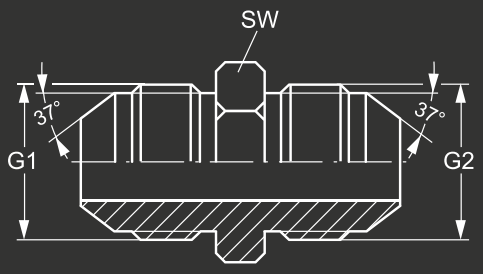
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JIC Male / Male

Connection sockets



Connection 1:	UN / UNF inner thread
Sealing form 1:	74° inner cone
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™

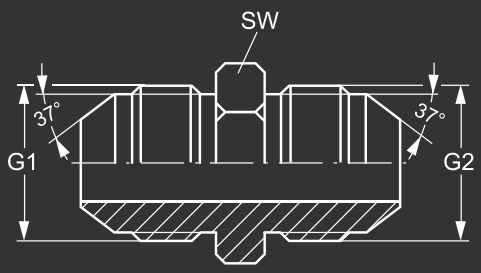


Identification	G1	G2	SW mm
JIM-JIM-0303-MC	3/8"-24 UNF	3/8"-24 UNF	12
JIM-JIM-0304-MC	3/8"-24 UNF	7/16"-20 UNF	12
JIM-JIM-0404-MC	7/16"-20 UNF	7/16"-20 UNF	12
JIM-JIM-0405-MC	7/16"-20 UNF	1/2"-20 UNF	14
JIM-JIM-0406-MC	7/16"-20 UNF	9/16"-18 UNF	17
JIM-JIM-0408-MC	7/16"-20 UNF	3/4"-16 UNF	19
JIM-JIM-0410-MC	7/16"-20 UNF	7/8"-14 UNF	24
JIM-JIM-0505-MC	1/2"-20 UNF	1/2"-20 UNF	14
JIM-JIM-0506-MC	1/2"-20 UNF	9/16"-18 UNF	17
JIM-JIM-0508-MC	1/2"-20 UNF	3/4"-16 UNF	19
JIM-JIM-0510-MC	1/2"-20 UNF	7/8"-14 UNF	24
JIM-JIM-0606-MC	9/16"-18 UNF	9/16"-18 UNF	17
JIM-JIM-0608-MC	9/16"-18 UNF	3/4"-16 UNF	19
JIM-JIM-0610-MC	9/16"-18 UNF	7/8"-14 UNF	24
JIM-JIM-0612-MC	9/16"-18 UNF	1.1/16"-12 UN	27
JIM-JIM-0808-MC	3/4"-16 UNF	3/4"-16 UNF	19
JIM-JIM-0810-MC	3/4"-16 UNF	7/8"-14 UNF	24
JIM-JIM-0812-MC	3/4"-16 UNF	1.1/16"-12 UN	27
JIM-JIM-0816-MC	3/4"-16 UNF	1.5/16"-12 UN	36
JIM-JIM-1010-MC	7/8"-14 UNF	7/8"-14 UNF	24
JIM-JIM-1012-MC	7/8"-14 UNF	1.1/16"-12 UN	27
JIM-JIM-1016-MC	7/8"-14 UNF	1.5/16"-12 UN	36
JIM-JIM-1212-MC	1.1/16"-12 UN	1.1/16"-12 UN	27
JIM-JIM-1214-MC	1.1/16"-12 UN	1.3/16"-12 UN	32

JIC Male / Male
Connection sockets



Connection 1:	UN / UNF inner thread
Sealing form 1:	74° inner cone
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
JIM-JIM-1216-MC	1.1/16"-12 UN	1.5/16"-12 UN	36
JIM-JIM-1220-MC	1.1/16"-12 UN	1.5/8"-12 UN	46
JIM-JIM-1414-MC	1.3/16"-12 UN	1.3/16"-12 UN	32
JIM-JIM-1416-MC	1.3/16"-12 UN	1.5/16"-12 UN	36
JIM-JIM-1616-MC	1.5/16"-12 UN	1.5/16"-12 UN	36
JIM-JIM-1620-MC	1.5/16"-12 UN	1.5/8"-12 UN	46
JIM-JIM-1624-MC	1.5/16"-12 UN	1.7/8"-12 UN	50
JIM-JIM-2020-MC	1.5/8"-12 UN	1.5/8"-12 UN	46
JIM-JIM-2024-MC	1.5/8"-12 UN	1.7/8"-12 UN	50
JIM-JIM-2424-MC	1.7/8"-12 UN	1.7/8"-12 UN	50
JIM-JIM-3232-MC	2.1/2"-12 UN	2.1/2"-12 UN	65

SW = Width across flats

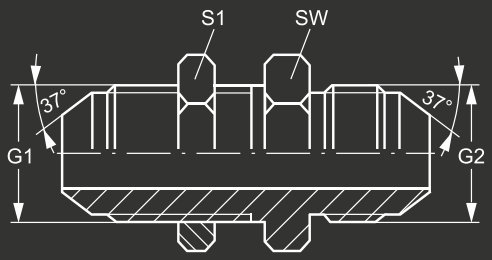
Product Version: Stainless Steel (SS)

JIC Bulkhead

Bulkhead fitting socket



Connection 1:	UN / UNF external threads
Sealing form 1:	74° outer cone
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Bulkhead fitting socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm	S1
JBM-JIM-0404-MC	7/16"-20 UNF	17	17
JBM-JIM-0505-MC	1/2"-20 UNF	19	19
JBM-JIM-0606-MC	9/16"-18 UNF	22	22
JBM-JIM-0808-MC	3/4"-16 UNF	24	24
JBM-JIM-1010-MC	7/8"-14 UNF	30	30
JBM-JIM-1212-MC	1.1/16"–12 UN	36	36
JBM-JIM-1414-MC	1.3/16"–12 UN	38	38
JBM-JIM-1616-MC	1.5/16"–12 UN	41	41
JBM-JIM-2020-MC	1.5/8"–12 UN	50	50
JBM-JIM-2424-MC	1.7/8"–12 UN	55	55
JBM-JIM-3232-MC	2.1/2"–12 UN	65	65

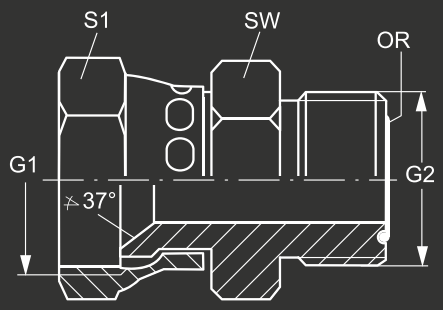
SW = Width across flats

JIC Swivel Female / ORFS Male

Connectors



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	74° inner cone
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR
JIF-ORM-0409-MC	7/16″-20 UNF	9/16″-18 UNF	16	14	7.65 x 1.78
JIF-ORM-0611-MC	9/16″-18 UNF	11/16″-16 UN	19	18	9.25 x 1.78
JIF-ORM-0813-MC	3/4″-16 UNF	13/16″-16 UN	22	22	12.42 x 1.78
JIF-ORM-1016-MC	7/8″-14 UNF	1″-14 UNS	27	25	15.60 x 1.78
JIF-ORM-1219-MC	1.1/16″-12 UN	1.3/16″-12 UN	32	32	18.77 x 1.78
JIF-ORM-1623-MC	1.5/16″-12 UN	1.7/16″-12 UN	38	38	23.52 x 1.78

SW, S1, S2 = Width across flats

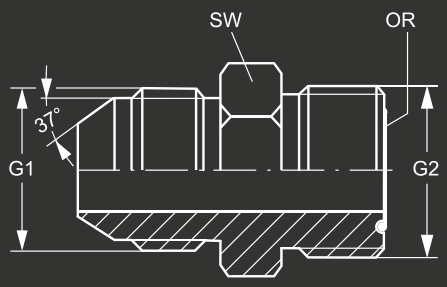
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JIC Male / ORFS Male

Connection sockets



Connection 1:	UN / UNF external threads
Sealing form 1:	74° inner cone
Connection 2:	ORFS external threads
Sealing form 2:	Flat seal with O-ring
Design:	Connection sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	OR
JIM-ORM-0409-MC	7/16"-20 UNF	9/16"-18 UNF	16	7.65 x 1.78
JIM-ORM-0511-MC	1/2"-20 UNF	11/16"-16 UN	19	9.25 x 1.78
JIM-ORM-0611-MC	9/16"-18 UNF	11/16"-16 UN	19	9.25 x 1.78
JIM-ORM-0813-MC	3/4"-16 UNF	13/16"-16 UN	22	12.42 x 1.78
JIM-ORM-1016-MC	7/8"-14 UNF	1"–14 UNS	27	15.60 x 1.78
JIM-ORM-1219-MC	1.1/16"-12 UN	1.3/16"-12 UN	32	18.77 x 1.78
JIM-ORM-1623-MC	1.5/16"-12 UN	1.7/16"-12 UN	38	23.52 x 1.78
JIM-ORM-2027-MC	1.5/8"-12 UN	1.11/16"-12 UN	45	29.87 x 1.78
JIM-ORM-2432-MC	1.7/8"-12 UN	2"-12 UN	54	37.82 x 1.78

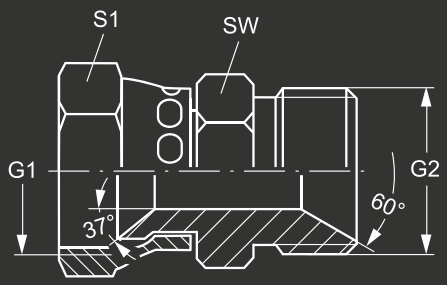
SW = Width across flats

JIC Swivel Female / BSPP Male

Connectors



Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1
JIF-BPM-0402-MC	7/16″-20 UNF	G 1/8″-28	14	17
JIF-BPM-0404-MC	7/16″-20 UNF	G 1/4″-19	19	17
JIF-BPM-0406-MC	7/16″-20 UNF	G 3/8″-19	22	17
JIF-BPM-0408-MC	7/16″-20 UNF	G 1/2″-14	27	17
JIF-BPM-0504-MC	1/2″-20 UNF	G 1/4″-19	19	17
JIF-BPM-0604-MC	9/16″-18 UNF	G 1/4″-19	19	19
JIF-BPM-0606-MC	9/16″-18 UNF	G 3/8″-19	22	19
JIF-BPM-0608-MC	9/16″-18 UNF	G 1/2″-14	27	19
JIF-BPM-0804-MC	3/4″-16 UNF	G 1/4″-19	19	24
JIF-BPM-0806-MC	3/4″-16 UNF	G 3/8″-19	22	24
JIF-BPM-0808-MC	3/4″-16 UNF	G 1/2″-14	27	24
JIF-BPM-0812-MC	3/4″-16 UNF	G 3/4″-14	32	24
JIF-BPM-1006-MC	7/8″-14 UNF	G 3/8″-19	22	27
JIF-BPM-1008-MC	7/8″-14 UNF	G 1/2″-14	27	27
JIF-BPM-1010-MC	7/8″-14 UNF	G 5/8″-14	30	27
JIF-BPM-1012-MC	7/8″-14 UNF	G 3/4″-14	32	27
JIF-BPM-1208-MC	1.1/16″-12 UN	G 1/2″-14	27	32
JIF-BPM-1212-MC	1.1/16″-12 UN	G 3/4″-14	32	32
JIF-BPM-1216-MC	1.1/16″-12 UN	G 1"-11	41	32
JIF-BPM-1612-MC	1.5/16″-12 UN	G 3/4″-14	32	41
JIF-BPM-1616-MC	1.5/16″-12 UN	G 1"-11	41	41
JIF-BPM-2020-MC	1.5/8″-12 UN	G 1.1/4″-11	50	50
JIF-BPM-2424-MC	1.7/8″-12 UN	G 1.1/2″-11	55	55
JIF-BPM-3232-MC	2.1/2″-12 UN	G 2"-11	70	70

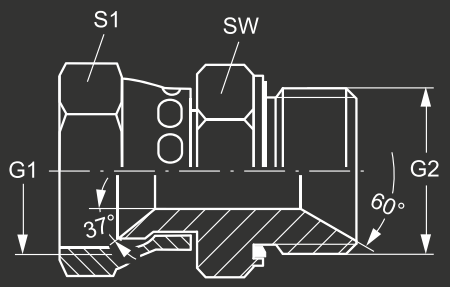
SW, S1, S2 = Width across flats

JIC Swivel Female / BSPP Male (Captive Seal)

Connectors



Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone + shape E
Design:	Connectors
Construction:	Straight
Material:	Steel



Identification	G1	G2	SW mm	S1
JIF-EDB-0402-MC	7/16"-20 UNF	G 1/8"–28	14	17
JIF-EDB-0404-MC	7/16"-20 UNF	G 1/4"–19	19	17
JIF-EDB-0504-MC	1/2"-20 UNF	G 1/4"–19	19	17
JIF-EDB-0604-MC	9/16"-18 UNF	G 1/4"–19	19	19
JIF-EDB-0606-MC	9/16"-18 UNF	G 3/8"–19	22	19
JIF-EDB-0806-MC	3/4"-16 UNF	G 3/8"–19	32	24
JIF-EDB-0808-MC	3/4"-16 UNF	G 1/2"–14	27	24
JIF-EDB-1008-MC	7/8"-14 UNF	G 1/2"–14	27	27
JIF-EDB-1212-MC	1.1/16"–12 UN	G 3/4"–14	32	32
JIF-EDB-1216-MC	1.1/16"–12 UN	G 1"–11	41	32
JIF-EDB-1612-MC	1.5/16"–12 UN	G 3/4"–14	32	41
JIF-EDB-1616-MC	1.5/16"–12 UN	G 1"–11	41	41
JIF-EDB-2016-MC	1.5/8"–12 UN	G 1"–11	41	50
JIF-EDB-2020-MC	1.5/8"–12 UN	G 1.1/4"–11	50	50
JIF-EDB-2420-MC	1.7/8"–12 UN	G 1.1/4"–11	50	55
JIF-EDB-2424-MC	1.7/8"–12 UN	G 1.1/2"–11	55	55

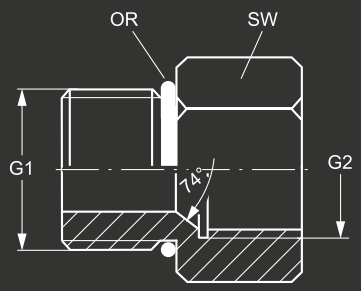
SW, S1, S2 = Width across flats

UNO Male / JIC Fixed Female

Screw-in sockets



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	UN / UNF inner thread
Sealing form 2:	74° inner cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	OR
UNM-JFF-0608-MC	9/16"-18 UNF	3/4"-16 UNF	27	11.90 x 1.98
UNM-JFF-1008-MC	7/8"-14 UNF	3/4"-16 UNF	25	19.18 x 2.46
UNM-JFF-1012-MC	7/8"-14 UNF	1.1/16"–12 UN	35	19.18 x 2.46
UNM-JFF-1208-MC	1.1/16"–12 UN	3/4"-16 UNF	32	23.47 x 2.95
UNM-JFF-1210-MC	1.1/16"–12 UN	7/8"-14 UNF	32	23.47 x 2.95
UNM-JFF-1612-MC	1.5/16"–12 UN	1.1/16"–12 UN	38	29.74 x 2.95

SW = Width across flats

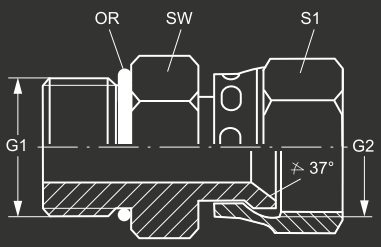
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JIC Swivel Female / UNO Male

Screw-in sockets



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	UN / UNF nut threads
Sealing form 2:	74° inner cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR
UNM-JIF-0404-MC	7/16"-20 UNF	7/16"-20 UNF	14	16	8.92 x 1.83
UNM-JIF-0504-MC	1/2"-20 UNF	7/16"-20 UNF	17	16	10.52 x 1.83
UNM-JIF-0505-MC	1/2"-20 UNF	1/2"-20 UNF	17	17	10.52 x 1.83
UNM-JIF-0604-MC	9/16"-18 UNF	7/16"-20 UNF	17	16	11.90 x 1.98
UNM-JIF-0606-MC	9/16"-18 UNF	9/16"-18 UNF	17	19	11.90 x 1.98
UNM-JIF-0608-MC	9/16"-18 UNF	3/4"-16 UNF	17	22	10.89 x 1.98
UNM-JIF-0806-MC	3/4"-16 UNF	9/16"-18 UNF	22	19	16.36 x 2.20
UNM-JIF-0808-MC	3/4"-16 UNF	3/4"-16 UNF	22	22	16.36 x 2.20
UNM-JIF-0810-MC	3/4"-16 UNF	7/8"-14 UNF	22	27	16.36 x 2.20
UNM-JIF-0812-MC	3/4"-16 UNF	1.1/16"-12 UN	22	32	16.36 x 2.20
UNM-JIF-1008-MC	7/8"-14 UNF	3/4"-16 UNF	27	22	19.18 x 2.46
UNM-JIF-1010-MC	7/8"-14 UNF	7/8"-14 UNF	27	27	19.18 x 2.46
UNM-JIF-1012-MC	7/8"-14 UNF	1.1/16"-12 UN	27	32	19.18 x 2.46
UNM-JIF-1208-MC	1.1/16"-12 UN	3/4"-16 UNF	32	22	23.47 x 2.95
UNM-JIF-1210-MC	1.1/16"-12 UN	7/8"-14 UNF	32	27	23.47 x 2.95
UNM-JIF-1212-MC	1.1/16"-12 UN	1.1/16"-12 UN	32	32	23.47 x 2.95
UNM-JIF-1216-MC	1.1/16"-12 UN	1.5/16"-12 UN	32	38	23.47 x 2.95
UNM-JIF-1414-MC	1.3/16"-12 UN	1.3/16"-12 UN	41	36	26.59 x 2.95
UNM-JIF-1612-MC	1.5/16"-12 UN	1.1/16"-12 UN	41	32	29.74 x 2.95
UNM-JIF-1616-MC	1.5/16"-12 UN	1.5/16"-12 UN	41	38	29.74 x 2.95
UNM-JIF-2016-MC	1.5/8"–12 UN	1.5/16"-12 UN	50	38	37.47 x 3.00
UNM-JIF-2020-MC	1.5/8"–12 UN	1.5/8"–12 UN	50	50	37.47 x 3.00
UNM-JIF-2424-MC	1.7/8"–12 UN	1.7/8"–12 UN	54	60	43.69 x 3.00

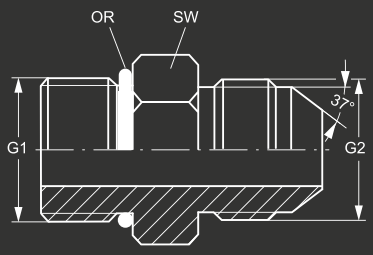
SW, S1, S2 = Width across flats

JIC Male / UNO Male

Screw-in sockets



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	UN / UNF inner thread
Sealing form 2:	74° inner cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	OR mm
UNM-JIM-0304-MC	3/8"-24 UNF	7/16"-20 UNF	14	7.65 x 1.78
UNM-JIM-0404-MC	7/16"-20 UNF	7/16"-20 UNF	14	8.92 x 1.83
UNM-JIM-0405-MC	7/16"-20 UNF	1/2"-20 UNF	14	8.92 x 1.83
UNM-JIM-0406-MC	7/16"-20 UNF	9/16"-18 UNF	16	8.92 x 1.83
UNM-JIM-0504-MC	1/2"-20 UNF	7/16"-20 UNF	16	10.52 x 1.83
UNM-JIM-0505-MC	1/2"-20 UNF	1/2"-20 UNF	16	10.52 x 1.83
UNM-JIM-0506-MC	1/2"-20 UNF	9/16"-18 UNF	16	10.52 x 1.83
UNM-JIM-0604-MC	9/16"-18 UNF	7/16"-20 UNF	17	11.90 x 1.98
UNM-JIM-0605-MC	9/16"-18 UNF	1/2"-20 UNF	17	11.90 x 1.98
UNM-JIM-0606-MC	9/16"-18 UNF	9/16"-18 UNF	17	11.90 x 1.98
UNM-JIM-0608-MC	9/16"-18 UNF	3/4"-16 UNF	19	11.90 x 1.98
UNM-JIM-0804-MC	3/4"-16 UNF	7/16"-20 UNF	22	16.36 x 2.20
UNM-JIM-0805-MC	3/4"-16 UNF	1/2"-20 UNF	22	16.36 x 2.20
UNM-JIM-0806-MC	3/4"-16 UNF	9/16"-18 UNF	22	16.36 x 2.20
UNM-JIM-0808-MC	3/4"-16 UNF	3/4"-16 UNF	22	16.36 x 2.20
UNM-JIM-0810-MC	3/4"-16 UNF	7/8"-14 UNF	24	16.36 x 2.20
UNM-JIM-0812-MC	3/4"-16 UNF	1.1/16"-12 UN	29	16.36 x 2.20
UNM-JIM-1008-MC	7/8"-14 UNF	3/4"-16 UNF	27	19.18 x 2.46
UNM-JIM-1006-MC	7/8"-14 UNF	9/16"-18 UNF	25	19.18 x 2.46
UNM-JIM-1010-MC	7/8"-14 UNF	7/8"-14 UNF	27	19.18 x 2.46
UNM-JIM-1012-MC	7/8"-14 UNF	1.1/16"-12 UN	27	19.18 x 2.46
UNM-JIM-1016-MC	7/8"-14 UNF	1.5/16"-12 UN	35	19.18 x 2.46
UNM-JIM-1216-MC	1.1/16"-12 UN	9/16"-18 UNF	32	23.47 x 2.95
UNM-JIM-1208-MC	1.1/16"-12 UN	3/4"-16 UNF	32	23.47 x 2.95
UNM-JIM-1210-MC	1.1/16"-12 UN	7/8"-14 UNF	32	23.47 x 2.95
UNM-JIM-1212-MC	1.1/16"-12 UN	1.1/16"-12 UN	32	23.47 x 2.95
UNM-JIM-1216-MC	1.1/16"-12 UN	1.5/16"-12 UN	36	23.47 x 2.95
UNM-JIM-1412-MC	1.3/16"-12 UN	1.1/16"-12 UN	35	26.59 x 2.95
UNM-JIM-1414-MC	1.3/16"-12 UN	1.3/16"-12 UN	35	26.59 x 2.95
UNM-JIM-1610-MC	1.5/16"-12 UN	7/8"-14 UNF	41	29.74 x 2.95

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JIC Male / UNO Male

Screw-in sockets

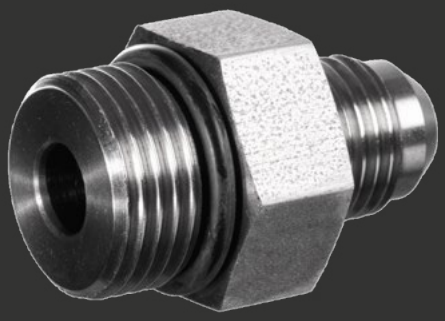
Identification	G1	G2	SW mm	OR mm
UNM-JIM-1612-MC	1.5/16″-12 UN	1.1/16″-12 UN	38	29.74 x 2.95
UNM-JIM-1616-MC	1.5/16″-12 UN	1.5/16″-12 UN	38	29.74 x 2.95
UNM-JIM-1620-MC	1.5/16″-12 UN	1.5/8″-12 UN	43	29.74 x 2.95
UNM-JIM-1624-MC	1.5/16″-12 UN	1.7/8″-12 UN	55	29.74 x 2.95
UNM-JIM-2016-MC	1.5/8″-12 UN	1.5/16″-12 UN	35	37.47 x 3.00
UNM-JIM-2020-MC	1.5/8″-12 UN	1.5/8″-12 UN	50	37.47 x 3.00
UNM-JIM-2024-MC	1.5/8″-12 UN	1.7/8″-12 UN	51	37.47 x 3.00
UNM-JIM-2420-MC	1.7/8″-12 UN	1.5/8″-12 UN	51	43.69 x 3.00
UNM-JIM-2424-MC	1.7/8″-12 UN	1.7/8″-12 UN	55	43.69 x 3.00
UNM-JIM-3232-MC	2.1/2″–12 UN	2.1/2″–12 UN	70	43.69 x 3.00

SW = Width across flats

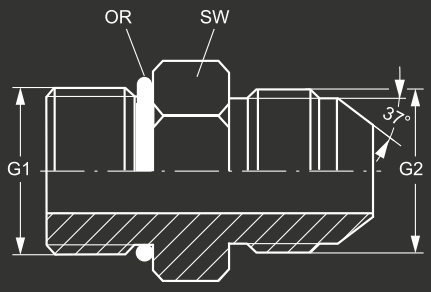
Product Version: Stainless Steel (SS)

JIC Male / Metric Stud Male - OS

Screw-in sockets



Connection 1:	Metric cylindrical outer thr
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	OR
MSM/OS-JIM-1004-MC	M 10 x 1	7/16"-20 UNF	14	8.1 x 1.6
MSM/OS-JIM-1005-MC	M 10 x 1	1/2"-20 UNF	14	8.1 x 1.6
MSM/OS-JIM-1204-MC	M 12 x 1.5	7/16"-20 UNF	17	9.3 x 2.2
MSM/OS-JIM-1205-MC	M 12 x 1.5	1/2"-20 UNF	17	9.3 x 2.2
MSM/OS-JIM-1405-MC	M 14 x 1.5	1/2"-20 UNF	19	11.3 x 2.2
MSM/OS-JIM-1406-MC	M 14 x 1.5	9/16"-18 UNF	19	11.3 x 2.2
MSM/OS-JIM-1408-MC	M 14 x 1.5	3/4"-16 UNF	19	11.3 x 2.2
MSM/OS-JIM-1606-MC	M 16 x 1.5	9/16"-18 UNF	22	13.3 x 2.2
MSM/OS-JIM-1608-MC	M 16 x 1.5	3/4"-16 UNF	22	13.3 x 2.2
MSM/OS-JIM-1806-MC	M 18 x 1.5	9/16"-18 UNF	24	15.3 x 2.2
MSM/OS-JIM-1808-MC	M 18 x 1.5	3/4"-16 UNF	24	15.3 x 2.2
MSM/OS-JIM-1810-MC	M 18 x 1.5	7/8"-14 UNF	24	15.3 x 2.2
MSM/OS-JIM-2210-MC	M 22 x 1.5	7/8"-14 UNF	27	19.3 x 2.2
MSM/OS-JIM-2212-MC	M 22 x 1.5	1.1/16"-12 UN	27	19.3 x 2.2
MSM/OS-JIM-2712-MC	M 27 x 2	1.1/16"-12 UN	32	23.6 x 2.9
MSM/OS-JIM-2716-MC	M 27 x 2	1.5/16"-12 UN	36	23.6 x 2.9
MSM/OS-JIM-3316-MC	M 33 x 2	1.5/16"-12 UN	41	29.6 x 2.9
MSM/OS-JIM-4220-MC	M 42 x 2	1.5/8"-12 UN	50	38.6 x 2.9
MSM/OS-JIM-4824-MC	M 48 x 2	1.7/8"-12 UN	55	44.6 x 2.9

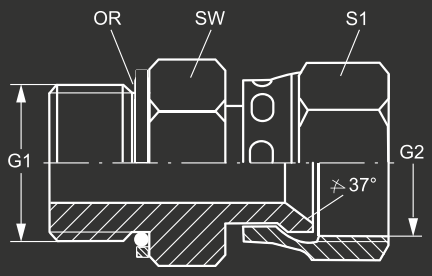
SW = Width across flats

JIC Female / Metric Stud Male

Screw-in sockets



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	UN / UNF nut threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR
MSM-JIF-1004-MC	M 10 x 1	7/16"-20 UNF	14	16	8.0 x 1.5
MSM-JIF-1005-MC	M 10 x 1	1/2"-20 UNF	14	17	8.0 x 1.5
MSM-JIF-1204-MC	M 12 x 1.5	7/16"-20 UNF	17	16	9.3 x 2.4
MSM-JIF-1205-MC	M 12 x 1.5	1/2"-20 UNF	17	17	9.3 x 2.4
MSM-JIF-1405-MC	M 14 x 1.5	1/2"-20 UNF	19	17	11.3 x 2.4
MSM-JIF-1406-MC	M 14 x 1.5	9/16"-18 UNF	19	19	11.3 x 2.4
MSM-JIF-1606-MC	M 16 x 1.5	9/16"-18 UNF	22	19	13.3 x 2.4
MSM-JIF-1608-MC	M 16 x 1.5	3/4"-16 UNF	22	22	13.3 x 2.4
MSM-JIF-1808-MC	M 18 x 1.5	3/4"-16 UNF	24	22	15.3 x 2.4
MSM-JIF-1810-MC	M 18 x 1.5	7/8"-14 UNF	24	27	15.3 x 2.4
MSM-JIF-2010-MC	M 20 x 1.5	7/8"-14 UNF	27	27	17.3 x 2.4
MSM-JIF-2210-MC	M 22 x 1.5	7/8"-14 UNF	27	27	19.3 x 2.4
MSM-JIF-2212-MC	M 22 x 1.5	1.1/16"–12 UN	27	32	19.3 x 2.4
MSM-JIF-2614-MC	M 26 x 1.5	1.3/16"–12 UN	32	40	23.5 x 2.6
MSM-JIF-2712-MC	M 27 x 2	1.1/16"–12 UN	32	32	23.6 x 2.9
MSM-JIF-2716-MC	M 27 x 2	1.5/16"–12 UN	32	38	23.6 x 2.9
MSM-JIF-3316-MC	M 33 x 2	1.5/16"–12 UN	41	38	29.5 x 3.0
MSM-JIF-4220-MC	M 42 x 2	1.5/8"–12 UN	50	50	38.0 x 3.0
MSM-JIF-4824-MC	M 48 x 2	1.7/8"–12 UN	60	60	44.0 x 3.0

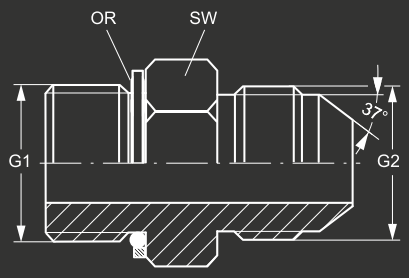
SW, S1, S2 = Width across flats

JIC Male / Metric Stud Male

Screw-in sockets



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	UN / UNF nut threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	OR
MSN-JIM-1004-MC	M 10 x 1	7/16″-20 UNF	14	8.00 x 1.50
MSN-JIM-1005-MC	M 10 x 1	1/2″-20 UNF	14	8.00 x 1.50
MSN-JIM-1204-MC	M 12 x 1.5	7/16″-20 UNF	17	9.30 x 2.30
MSN-JIM-1205-MC	M 12 x 1.5	1/2″-20 UNF	19	9.30 x 2.30
MSN-JIM-1405-MC	M 14 x 1.5	1/2″-20 UNF	19	11.30 x 2.30
MSN-JIM-1406-MC	M 14 x 1.5	9/16″-18 UNF	19	11.30 x 2.30
MSN-JIM-1408-MC	M 14 x 1.5	3/4″-16 UNF	19	11.30 x 2.30
MSN-JIM-1606-MC	M 16 x 1.5	9/16″-18 UNF	22	13.30 x 2.30
MSN-JIM-1608-MC	M 16 x 1.5	3/4″-16 UNF	22	13.30 x 2.30
MSN-JIM-1808-MC	M 18 x 1.5	3/4″-16 UNF	24	15.30 x 2.30
MSN-JIM-1810-MC	M 18 x 1.5	7/8″-14 UNF	24	15.30 x 2.30
MSN-JIM-1812-MC	M 18 x 1.5	1.1/16″-12 UN	27	15.30 x 2.30
MSN-JIM-2010-MC	M 20 x 1.5	7/8″-14 UNF	27	17.30 x 2.30
MSN-JIM-2208-MC	M 22 x 1.5	3/4″-16 UNF	27	19.30 x 2.30
MSN-JIM-2210-MC	M 22 x 1.5	7/8″-14 UNF	27	19.30 x 2.30
MSN-JIM-2212-MC	M 22 x 1.5	1.1/16″-12 UN	27	19.30 x 2.30
MSN-JIM-2608-MC	M 26 x 1.5	3/4″-16 UNF	27	23.50 x 2.60
MSN-JIM-2612-MC	M 26 x 1.5	1.1/16″-12 UN	32	23.50 x 2.60
MSN-JIM-2614-MC	M 26 x 1.5	1.3/16″-12 UN	32	23.50 x 2.60
MSN-JIM-2616-MC	M 26 x 1.5	1.5/16″-12 UN	36	23.50 x 2.60
MSN-JIM-2712-MC	M 27 x 2	1.1/16″-12 UN	32	23.47 x 2.95
MSN-JIM-2716-MC	M 27 x 2	1.5/16″-12 UN	36	23.47 x 2.95
MSN-JIM-3316-MC	M 33 x 2	1.5/16″-12 UN	41	29.74 x 2.95
MSN-JIM-4220-MC	M 42 x 2	1.5/8″-12 UN	50	38.00 x 3.00
MSN-JIM-4824-MC	M 48 x 2	1.7/8″-12 UN	55	44.00 x 3.00

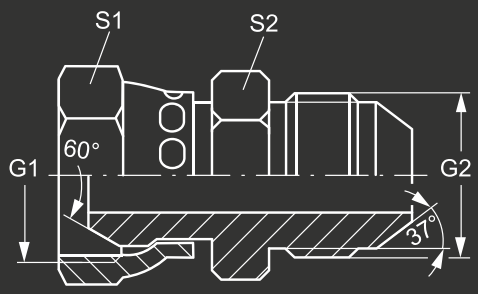
SW = Width across flats

JIC Male / BSPP Swivel Female

Connectors



Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Connector
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	S1	S2
BSF-JIM-0204-MC	G 1/8"–28	7/16"-20 UNF	14	13
BSF-JIM-0404-MC	G 1/4"–19	7/16"-20 UNF	19	19
BSF-JIM-0405-MC	G 1/4"–19	1/2"-20 UNF	19	19
BSF-JIM-0406-MC	G 1/4"–19	9/16"-18 UNF	19	16
BSF-JIM-0606-MC	G 3/8"–19	9/16"-18 UNF	22	19
BSF-JIM-0604-MC	G 3/8"–19	7/16"-20 UNF	22	19
BSF-JIM-0608-MC	G 3/8"–19	3/4"-16 UNF	22	19
BSF-JIM-0610-MC	G 3/8"–19	7/8"-14 UNF	22	24
BSF-JIM-0808-MC	G 1/2"–14	3/4"-16 UNF	27	22
BSF-JIM-0804-MC	G 1/2"–14	7/16"-20 UNF	27	22
BSF-JIM-0806-MC	G 1/2"–14	9/16"-18 UNF	27	22
BSF-JIM-0810-MC	G 1/2"–14	7/8"-14 UNF	27	24
BSF-JIM-1212-MC	G 3/4"–14	1.1/16"-12 UN	32	27
BSF-JIM-1210-MC	G 3/4"–14	7/8"-14 UNF	32	27
BSF-JIM-1616-MC	G 1"–11	1.5/16"-12 UN	41	46
BSF-JIM-1612-MC	G 1"–11	1.1/16"-12 UN	41	36

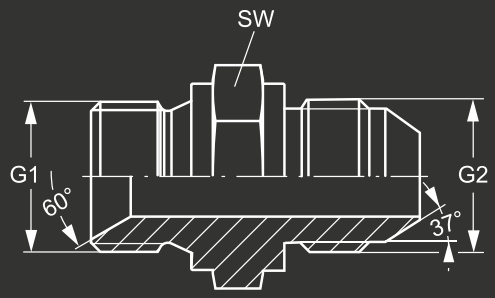
SW, S1, S2 = Width across flats

JIC Male / BSPP Male

Connection sockets



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° outer cone
Connection 2:	BSPP Cylindrical external threads
Sealing form 2:	74° outer cone
Design:	Connection sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2
BPM-JIM-0204-MC	G 1/8"–28	7/16"-20 UNF
BPM-JIM-0205-MC	G 1/8"–28	1/2"-20 UNF
BPM-JIM-0206-MC	G 1/8"–28	9/16"-18 UNF
BPM-JIM-0404-MC	G 1/4"–19	7/16"-20 UNF
BPM-JIM-0405-MC	G 1/4"–19	1/2"-20 UNF
BPM-JIM-0406-MC	G 1/4"–19	9/16"-18 UNF
BPM-JIM-0408-MC	G 1/4"–19	3/4"-16 UNF
BPM-JIM-0604-MC	G 3/8"–19	7/16"-20 UNF
BPM-JIM-0605-MC	G 3/8"–19	1/2"-20 UNF
BPM-JIM-0606-MC	G 3/8"–19	9/16"-18 UNF
BPM-JIM-0608-MC	G 3/8"–19	3/4"-16 UNF
BPM-JIM-0610-MC	G 3/8"–19	7/8"-14 UNF
BPM-JIM-0612-MC	G 3/8"–19	1.1/16"-12 UN
BPM-JIM-0804-MC	G 1/2"–14	7/16"-20 UNF
BPM-JIM-0805-MC	G 1/2"–14	1/2"-20 UNF
BPM-JIM-0806-MC	G 1/2"–14	9/16"-18 UNF
BPM-JIM-0808-MC	G 1/2"–14	3/4"-16 UNF
BPM-JIM-0810-MC	G 1/2"–14	7/8"-14 UNF
BPM-JIM-0812-MC	G 1/2"–14	1.1/16"-12 UN
BPM-JIM-1206-MC	G 3/4"–14	9/16"-18 UNF
BPM-JIM-1208-MC	G 3/4"–14	3/4"-16 UNF
BPM-JIM-1210-MC	G 3/4"–14	7/8"-14 UNF
BPM-JIM-1212-MC	G 3/4"–14	1.1/16"-12 UN
BPM-JIM-1216-MC	G 3/4"–14	1.5/16"-12 UN
BPM-JIM-1612-MC	G 1"-11	1.1/16"-12 UN
BPM-JIM-1616-MC	G 1"-11	1.5/16"-12 UN
BPM-JIM-1620-MC	G 1"-11	1.5/8"–12 UN
BPM-JIM-2020-MC	G 1.1/4"–11	1.5/8"–12 UN

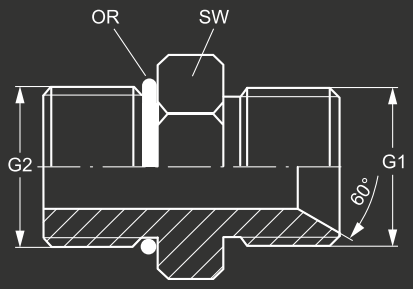
SW = Width across flats

BSPP Male / UNO Male

Screw-in sockets



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	BSPT Cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2
BPM-UNM-0404-MC	G 1/4"–19	7/16"–20 UNF
BPM-UNM-0405-MC	G 1/4"–19	1/2"–20 UNF
BPM-UNM-0406-MC	G 1/4"–19	9/16"–18 UNF
BPM-UNM-0408-MC	G 1/4"–19	3/4"–16 UNF
BPM-UNM-0604-MC	G 3/8"–19	7/16"–20 UNF
BPM-UNM-0605-MC	G 3/8"–19	1/2"–20 UNF
BPM-UNM-0606-MC	G 3/8"–19	9/16"–18 UNF
BPM-UNM-0608-MC	G 3/8"–19	3/4"–16 UNF
BPM-UNM-0610-MC	G 3/8"–19	7/8"–14 UNF
BPM-UNM-0612-MC	G 3/8"–19	1.1/16"–12 UN
BPM-UNM-0804-MC	G 1/2"–14	7/16"–20 UNF
BPM-UNM-0805-MC	G 1/2"–14	1/2"–20 UNF
BPM-UNM-0806-MC	G 1/2"–14	9/16"–18 UNF
BPM-UNM-0808-MC	G 1/2"–14	3/4"–16 UNF
BPM-UNM-0810-MC	G 1/2"–14	7/8"–14 UNF
BPM-UNM-0812-MC	G 1/2"–14	1.1/16"–12 UN
BPM-UNM-1208-MC	G 3/4"–14	3/4"–16 UNF
BPM-UNM-1210-MC	G 3/4"–14	7/8"–14 UNF
BPM-UNM-1212-MC	G 3/4"–14	1.1/16"–12 UN
BPM-UNM-1216-MC	G 3/4"–14	1.5/16"–12 UN
BPM-UNM-1608-MC	G 1"-11	3/4"–16 UNF
BPM-UNM-1612-MC	G 1"-11	1.1/16"–12 UN
BPM-UNM-1616-MC	G 1"-11	1.5/16"–12 UN
BPM-UNM-1620-MC	G 1"-11	1.5/16"–12 UN

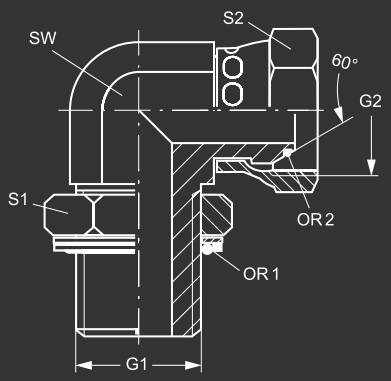
SW = Width across flats

UNO Male Positional / BSPP Swivel Female 90

Screw-in socket, angle 90°



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	BSP Cylindrical Internal threads
Sealing form 2:	60° outer cone
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2
UNP-BSF-90-0404-MC	7/16"–20 UNF	G 1/4"–19
UNP-BSF-90-0406-MC	7/16"–20 UNF	G 3/8"–19
UNP-BSF-90-0408-MC	7/16"–20 UNF	G 1/2"–14
UNP-BSF-90-0504-MC	1/2"–20 UNF	G 1/4"–19
UNP-BSF-90-0506-MC	1/2"–20 UNF	G 3/8"–19
UNP-BSF-90-0508-MC	1/2"–20 UNF	G 1/2"–14
UNP-BSF-90-0604-MC	9/16"–18 UNF	G 1/4"–19
UNP-BSF-90-0606-MC	9/16"–18 UNF	G 3/8"–19
UNP-BSF-90-0608-MC	9/16"–18 UNF	G 1/2"–14
UNP-BSF-90-0612-MC	9/16"–18 UNF	G 3/4"–14
UNP-BSF-90-0804-MC	1/2"–20 UNF	G 1/4"–19
UNP-BSF-90-0806-MC	1/2"–20 UNF	G 3/8"–19
UNP-BSF-90-0808-MC	1/2"–20 UNF	G 1/2"–14
UNP-BSF-90-0812-MC	1/2"–20 UNF	G 3/4"–14
UNP-BSF-90-1006-MC	7/8"–14 UNF	G 3/8"–19
UNP-BSF-90-1008-MC	7/8"–14 UNF	G 1/2"–14
UNP-BSF-90-1012-MC	7/8"–14 UNF	G 3/4"–14
UNP-BSF-90-1208-MC	1.1/16"–12 UN	G 1/2"–14
UNP-BSF-90-1212-MC	1.1/16"–12 UN	G 3/4"–14
UNP-BSF-90-1216-MC	1.1/16"–12 UN	G 1"-11
UNP-BSF-90-1612-MC	1.5/16"–12 UN	G 3/4"–14
UNP-BSF-90-1616-MC	1.5/16"–12 UN	G 1"-11

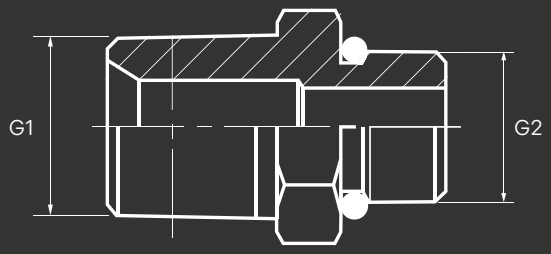
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BSPT Male / UNO Male

Screw-in sockets



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	BSPT cylindrical threads
Sealing form 2:	60° inner cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



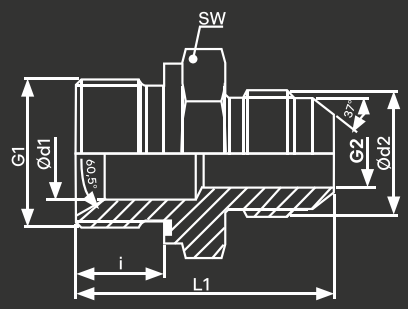
Identification	G1	G2
BTM-UNM-0404-MC	R 1/4"K	7/16"–20 UNF
BTM-UNM-0405-MC	R 1/4"K	1/2"–20 UNF
BTM-UNM-0406-MC	R 1/4"K	9/16"–18 UNF
BTM-UNM-0408-MC	R 1/4"K	1/2"–20 UNF
BTM-UNM-0604-MC	R 3/8"K	7/16"–20 UNF
BTM-UNM-0605-MC	R 3/8"K	1/2"–20 UNF
BTM-UNM-0606-MC	R 3/8"K	9/16"–18 UNF
BTM-UNM-0608-MC	R 3/8"K	1/2"–20 UNF
BTM-UNM-0610-MC	R 3/8"K	7/8"–14 UNF
BTM-UNM-0612-MC	R 3/8"K	1.1/16"–12 UN
BTM-UNM-0804-MC	R 1/2"K	7/16"–20 UNF
BTM-UNM-0806-MC	R 1/2"K	9/16"–18 UNF
BTM-UNM-0808-MC	R 1/2"K	1/2"–20 UNF
BTM-UNM-0810-MC	R 1/2"K	7/8"–14 UNF
BTM-UNM-0812-MC	R 1/2"K	1.1/16"–12 UN
BTM-UNM-1206-MC	R 3/4"K	9/16"–18 UNF
BTM-UNM-1208-MC	R 3/4"K	1/2"–20 UNF
BTM-UNM-1210-MC	R 3/4"K	7/8"–14 UNF
BTM-UNM-1212-MC	R 3/4"K	1.1/16"–12 UN
BTM-UNM-1216-MC	R 3/4"K	1.5/16"–12 UN
BTM-UNM-1612-MC	R 1"K	1.1/16"–12 UN
BTM-UNM-1616-MC	R 1"K	1.5/16"–12 UN

JIC Male / BSPP Captive Male

Screw-in sockets



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Shape E
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
EDB-JIM-0204-MC	G 1/8"–28	7/16"–20 UNF	14
EDB-JIM-0205-MC	G 1/8"–28	1/2"–20 UNF	14
EDB-JIM-0206-MC	G 1/8"–28	9/16"–18 UNF	19
EDB-JIM-0404-MC	G 1/4"–19	7/16"–20 UNF	19
EDB-JIM-0405-MC	G 1/4"–19	1/2"–20 UNF	19
EDB-JIM-0406-MC	G 1/4"–19	9/16"–18 UNF	19
EDB-JIM-0408-MC	G 1/4"–19	3/4"–16 UNF	19
EDB-JIM-0604-MC	G 3/8"–19	7/16"–20 UNF	22
EDB-JIM-0605-MC	G 3/8"–19	1/2"–20 UNF	22
EDB-JIM-0606-MC	G 3/8"–19	9/16"–18 UNF	22
EDB-JIM-0608-MC	G 3/8"–19	3/4"–16 UNF	22
EDB-JIM-0610-MC	G 3/8"–19	7/8"–14 UNF	24
EDB-JIM-0612-MC	G 3/8"–19	1.1/16"–12 UN	27
EDB-JIM-0804-MC	G 1/2"–14	7/16"–20 UNF	27
EDB-JIM-0806-MC	G 1/2"–14	9/16"–18 UNF	27
EDB-JIM-0808-MC	G 1/2"–14	3/4"–16 UNF	27
EDB-JIM-0810-MC	G 1/2"–14	7/8"–14 UNF	27
EDB-JIM-0812-MC	G 1/2"–14	1.1/16"–12 UN	27
EDB-JIM-1208-MC	G 3/4"–14	3/4"–16 UNF	32
EDB-JIM-1210-MC	G 3/4"–14	7/8"–14 UNF	32
EDB-JIM-1212-MC	G 3/4"–14	1.1/16"–12 UN	32
EDB-JIM-1216-MC	G 3/4"–14	1.5/16"–12 UN	36

SW = Width across flats

Product Version: Stainless Steel (SS)

Spare Parts: WD Soft Seal for ED Fittings

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JIC Male / BSPP Captive Male

Screw-in sockets

Identification	G1	G2	SW mm
EDB-JIM-1612-MC	G 1"–11	1.1/16"–12 UN	41
EDB-JIM-1616-MC	G 1"–11	1.5/16"–12 UN	41
EDB-JIM-1620-MC	G 1"–11	1.5/8"–12 UN	46
EDB-JIM-1624-MC	G 1"–11	1.7/8"–12 UN	50
EDB-JIM-2016-MC	G 1.1/4"–11	1.5/16"–12 UN	50
EDB-JIM-2020-MC	G 1.1/4"–11	1.5/8"–12 UN	50
EDB-JIM-2024-MC	G 1.1/4"–11	1.7/8"–12 UN	50
EDB-JIM-2420-MC	G 1.1/2"–11	1.5/8"–12 UN	55
EDB-JIM-2424-MC	G 1.1/2"–11	1.7/8"–12 UN	55

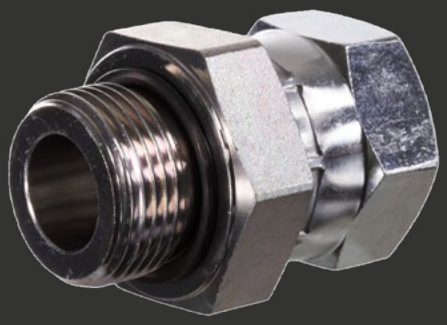
SW = Width across flats

Product Version: Stainless Steel (SS)

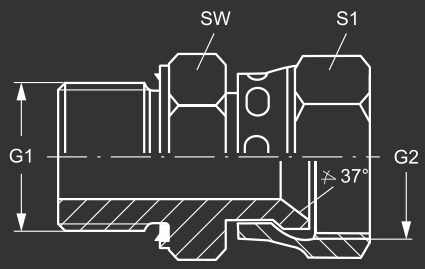
Spare Parts: WD Soft Seal for ED Fittings

JIC Swivel Female / BSPP Captive Male

Screw-in sockets



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Shape E
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW	S1
EDB-JIF-0204-MC	G 1/8″-28	7/16″-20 UNF	14	14
EDB-JIF-0205-MC	G 1/8″-28	1/2″-20 UNF	14	17
EDB-JIF-0405-MC	G 1/4″-19	1/2″-20 UNF	19	17
EDB-JIF-0406-MC	G 1/4″-19	9/16″-18 UNF	19	19
EDB-JIF-0408-MC	G 1/4″-19	3/4″-16 UNF	19	22
EDB-JIF-0606-MC	G 3/8″-19	9/16″-18 UNF	22	19
EDB-JIF-0608-MC	G 3/8″-19	3/4″-16 UNF	22	22
EDB-JIF-0610-MC	G 3/8″-19	7/8″-14 UNF	27	27
EDB-JIF-0808-MC	G 1/2″-14	7/8″-14 UNF	27	27
EDB-JIF-0812-MC	G 1/2″-14	1.1/16″-12 UN	27	32
EDB-JIF-1212-MC	G 3/4″-14	1.1/16″-12 UN	32	32
EDB-JIF-1216-MC	G 3/4″-14	1.5/16″-12 UN	32	41
EDB-JIF-1616-MC	G 1″-11	1.5/16″-12 UN	41	41
EDB-JIF-1620-MC	G 1″-11	1.5/8″-12 UN	41	50
EDB-JIF-2020-MC	G 1.1/4″-11	1.5/8″-12 UN	50	50
EDB-JIF-2024-MC	G 1.1/4″-11	1.7/8″-12 UN	50	60
EDB-JIF-2424-MC	G 1.1/2″-11	1.7/8″-12 UN	55	60

SW, S1, S2 = Width across flats

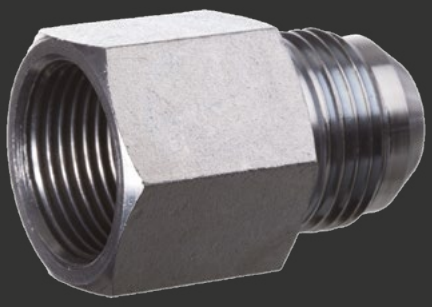
Product Version: Stainless Steel (SS)

Spare Parts: WD Soft Seal for ED Fittings

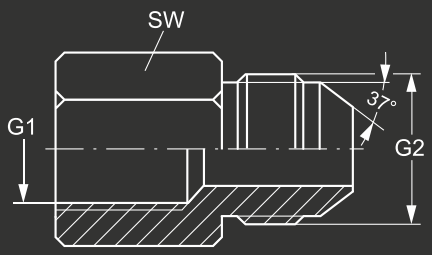
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JIC Male / BSPP Fixed Female

Connection sockets



Connection 1:	BSP cylindrical internal threads
Sealing form 1:	Flat sealing
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Connection sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BPF-JIM-0204-MC	G 1/8"–28	7/16"-20 UNF	16
BPF-JIM-0205-MC	G 1/8"–28	1/2"-20 UNF	16
BPF-JIM-0404-MC	G 1/4"–19	7/16"-20 UNF	19
BPF-JIM-0405-MC	G 1/4"–19	1/2"-20 UNF	19
BPF-JIM-0406-MC	G 1/4"–19	9/16"-18 UNF	19
BPF-JIM-0408-MC	G 1/4"–19	3/4"-16 UNF	22
BPF-JIM-0606-MC	G 3/8"–19	9/16"-18 UNF	22
BPF-JIM-0608-MC	G 3/8"–19	3/4"-16 UNF	22
BPF-JIM-0806-MC	G 1/2"–14	9/16"-18 UNF	30
BPF-JIM-0808-MC	G 1/2"–14	3/4"-16 UNF	30
BPF-JIM-0810-MC	G 1/2"–14	7/8"-14 UNF	30
BPF-JIM-0812-MC	G 1/2"–14	1.1/16"-12 UN	30
BPF-JIM-1208-MC	G 3/4"–14	3/4"-16 UNF	36
BPF-JIM-1212-MC	G 3/4"–14	1.1/16"-12 UN	36
BPF-JIM-1214-MC	G 3/4"–14	1.3/16"-12 UN	41
BPF-JIM-1616-MC	G 1"–11	1.5/16"-12 UN	46
BPF-JIM-1620-MC	G 1"–11	1.5/8"-12 UN	50
BPF-JIM-2020-MC	G 1.1/4"–11	1.5/8"-12 UN	50
BPF-JIM-2024-MC	G 1.1/4"–11	1.7/8"-12 UN	55
BPF-JIM-2424-MC	G 1.1/2"–11	1.7/8"-12 UN	55
BPF-JIM-3232-MC	G 2"–11	2.1/2"-12 UN	73

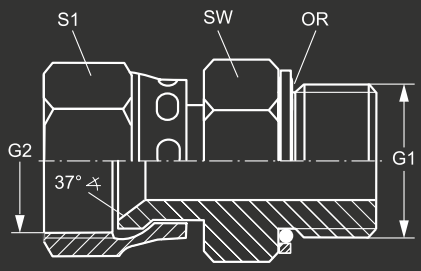
SW = Width across flats

JIC Swivel Female / BSPP Male

Screw-in sockets



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	UN / UNF nut threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



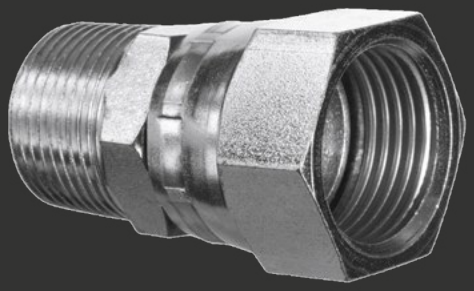
Identification	Working pressure bar	G1	G2	SW mm	S1	OR
BPM-JIF-0204-MC	PN 315	G 1/8"–28	7/16"-20 UNF	16	14	7.97 x 1.88
BPM-JIF-0205-MC	PN 315	G 1/8"–28	1/2"-20 UNF	16	17	7.97 x 1.88
BPM-JIF-0404-MC	PN 315	G 1/4"–19	7/16"-20 UNF	19	14	10.77 x 2.62
BPM-JIF-0405-MC	PN 315	G 1/4"–19	1/2"-20 UNF	19	17	10.77 x 2.62
BPM-JIF-0406-MC	PN 250	G 1/4"–19	9/16"-18 UNF	19	19	10.77 x 2.62
BPM-JIF-0408-MC	PN 250	G 1/4"–19	3/4"-16 UNF	19	22	10.77 x 2.62
BPM-JIF-0604-MC	PN 315	G 3/8"–19	7/16"-20 UNF	22	14	13.94 x 2.62
BPM-JIF-0605-MC	PN 315	G 3/8"–19	1/2"-20 UNF	22	17	13.94 x 2.62
BPM-JIF-0606-MC	PN 250	G 3/8"–19	9/16"-18 UNF	22	19	13.94 x 2.62
BPM-JIF-0608-MC	PN 250	G 3/8"–19	3/4"-16 UNF	22	22	13.94 x 2.62
BPM-JIF-0610-MC	PN 200	G 3/8"–19	7/8"-14 UNF	22	27	13.94 x 2.62
BPM-JIF-0806-MC	PN 250	G 1/2"–14	9/16"-18 UNF	30	19	17.86 x 2.62
BPM-JIF-0808-MC	PN 250	G 1/2"–14	3/4"-16 UNF	30	22	17.86 x 2.62
BPM-JIF-0810-MC	PN 200	G 1/2"–14	7/8"-14 UNF	30	27	17.86 x 2.62
BPM-JIF-0812-MC	PN 200	G 1/2"–14	1.1/16"–12 UN	30	32	17.86 x 2.62
BPM-JIF-1210-MC	PN 200	G 3/4"–14	7/8"-14 UNF	36	27	23.47 x 2.62
BPM-JIF-1212-MC	PN 200	G 3/4"–14	1.1/16"–12 UN	36	32	23.47 x 2.62
BPM-JIF-1216-MC	PN 160	G 3/4"–14	1.5/16"–12 UN	36	41	23.47 x 2.62
BPM-JIF-1612-MC	PN 200	G 1"–11	1.1/16"–12 UN	46	32	29.74 x 3.53
BPM-JIF-1616-MC	PN 160	G 1"–11	1.5/16"–12 UN	46	41	29.74 x 3.53
BPM-JIF-1620-MC	PN 125	G 1"–11	1.5/8"–12 UN	46	50	29.74 x 3.53
BPM-JIF-2016-MC	PN 160	G 1.1/4"–11	1.5/16"–12 UN	50	41	37.69 x 3.53
BPM-JIF-2020-MC	PN 125	G 1.1/4"–11	1.5/8"–12 UN	50	50	37.69 x 3.53
BPM-JIF-2024-MC	PN 100	G 1.1/4"–11	1.7/8"–12 UN	50	60	37.69 x 3.53
BPM-JIF-2424-MC	PN 100	G 1.1/2"–11	1.7/8"–12 UN	55	60	44.04 x 3.53

SW, S1, S2 = Width across flats

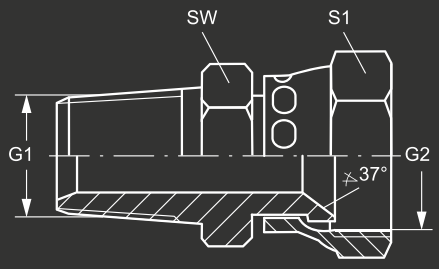
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JIC Swivel Female / BSPT Male

Screw-in sockets



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	UN / UNF nut threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1
BTM-JIF-0204-MC	R 1/8″K	7/16″-20 UNF	13	16
BTM-JIF-0205-MC	R 1/8″K	1/2″-20 UNF	13	17
BTM-JIF-0404-MC	R 1/4″K	7/16″-20 UNF	14	16
BTM-JIF-0405-MC	R 1/4″K	1/2″-20 UNF	14	17
BTM-JIF-0406-MC	R 1/4″K	9/16″-18 UNF	14	19
BTM-JIF-0408-MC	R 1/4″K	3/4″-16 UNF	19	22
BTM-JIF-0605-MC	R 3/8″K	1/2″-20 UNF	19	17
BTM-JIF-0606-MC	R 3/8″K	9/16″-18 UNF	19	19
BTM-JIF-0608-MC	R 3/8″K	3/4″-16 UNF	19	22
BTM-JIF-0610-MC	R 3/8″K	7/8″-14 UNF	22	27
BTM-JIF-0808-MC	R 1/2″K	3/4″-16 UNF	27	32
BTM-JIF-0810-MC	R 1/2″K	7/8″-14 UNF	22	27
BTM-JIF-0812-MC	R 1/2″K	1.1/16″–12 UN	27	32
BTM-JIF-1210-MC	R 3/4″K	7/8″-14 UNF	27	27
BTM-JIF-1212-MC	R 3/4″K	1.1/16″–12 UN	27	32
BTM-JIF-1214-MC	R 3/4″K	1.3/16″–12 UN	27	32
BTM-JIF-1216-MC	R 3/4″K	1.5/16″–12 UN	32	38
BTM-JIF-1612-MC	R 1″K	1.1/16″–12 UN	36	38
BTM-JIF-1616-MC	R 1″K	1.5/16″–12 UN	36	38
BTM-JIF-2020-MC	R 1.1/4″K	1.5/8″–12 UN	46	50
BTM-JIF-2424-MC	R 1.1/2″K	1.7/8″–12 UN	54	55

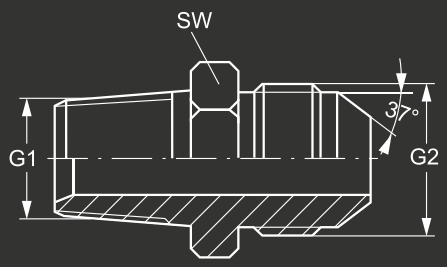
SW, S1, S2 = Width across flats

JIC Male / BSPT Male

Screw-in sockets



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BTM-JIM-0204-MC	R 1/8"K	7/16"-20 UNF	14
BTM-JIM-0205-MC	R 1/8"K	1/2"-20 UNF	14
BTM-JIM-0404-MC	R 1/4"K	7/16"-20 UNF	14
BTM-JIM-0405-MC	R 1/4"K	1/2"-20 UNF	14
BTM-JIM-0406-MC	R 1/4"K	9/16"-18 UNF	19
BTM-JIM-0408-MC	R 1/4"K	3/4"-16 UNF	22
BTM-JIM-0604-MC	R 3/8"K	7/16"-20 UNF	19
BTM-JIM-0605-MC	R 3/8"K	1/2"-20 UNF	19
BTM-JIM-0606-MC	R 3/8"K	9/16"-18 UNF	19
BTM-JIM-0608-MC	R 3/8"K	3/4"-16 UNF	22
BTM-JIM-0610-MC	R 3/8"K	7/8"-14 UNF	24
BTM-JIM-0612-MC	R 3/8"K	1.1/16"-12 UN	27
BTM-JIM-0806-MC	R 1/2"K	9/16"-18 UNF	22
BTM-JIM-0808-MC	R 1/2"K	3/4"-16 UNF	22
BTN-JIM-0810-MC	R 1/2"K	7/8"-14 UNF	24
BTM-JIM-0812-MC	R 1/2"K	1.1/16"-12 UN	27
BTM-JIM-0816-MC	R 1/2"K	1.5/16"-12 UN	36
BTM-JIM-1010-MC	R 5/8"K	7/8"-14 UNF	24
BTM-JIM-1206-MC	R 3/4"K	9/16"-18 UNF	27
BTM-JIM-1208-MC	R 3/4"K	3/4"-16 UNF	27
BTM-JIM-1210-MC	R 3/4"K	7/8"-14 UNF	27
BTM-JIM-1212-MC	R 3/4"K	1.1/16"-12 UN	27
BTM-JIM-1216-MC	R 3/4"K	1.5/16"-12 UN	36
BTM-JIM-1220-MC	R 3/4"K	1.5/8"-12 UN	46
BTM-JIM-1608-MC	R 1"K	3/4"-16 UNF	36
BTM-JIM-1610-MC	R 1"K	7/8"-14 UNF	36
BTM-JIM-1612-MC	R 1"K	1.1/16"-12 UN	36
BTM-JIM-1616-MC	R 1"K	1.5/16"-12 UN	36
BTM-JIM-1620-MC	R 1"K	1.5/8"-12 UN	46

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JIC Male / BSPT Male

Screw-in sockets

Identification	G1	G2	SW mm
BTM-JIM-2012-MC	R 1.1/4"K	1.1/16"-12 UN	46
BTM-JIM-2016-MC	R 1.1/4"K	1.5/16"-12 UN	46
BTM-JIM-2020-MC	R 1.1/4"K	1.5/8"-12 UN	46
BTM-JIM-2024-MC	R 1.1/4"K	1.7/8"-12 UN	50
BTM-JIM-2416-MC	R 1.1/2"K	1.5/16"-12 UN	50
BTM-JIM-2420-MC	R 1.1/2"K	1.5/8"-12 UN	50
BTM-JIM-2424-MC	R 1.1/2"K	1.7/8"-12 UN	50
BTM-JIM-2432-MC	R 1.1/2"K	2.1/2"-12 UN	65
BTM-JIM-3232-MC	R 2"K	2.1/2"-12 UN	65
BTM-JIM-4040-MC	R 2.1/2"K	3"–11 UN	70
BTM-JIM-4848-MC	R 3"K	3.1/2"–11 UN	80

SW = Width across flats

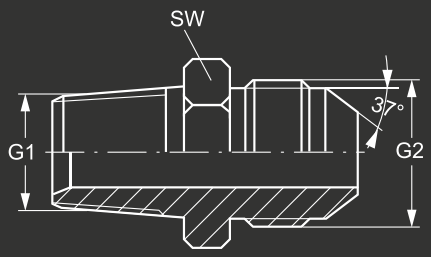
Product Version: Stainless Steel (SS)

JIC Male / NPT Male

Screw-in sockets



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
NTM-JIM-0203-MC	1/8"-27 NPT	3/8"-24 UNF	12
NTM-JIM-0204-MC	1/8"-27 NPT	7/16"-20 UNF	12
NTM-JIM-0205-MC	1/8"-27 NPT	1/2"-20 UNF	14
NTM-JIM-0206-MC	1/8"-27 NPT	9/16"-18 UNF	17
NTM-JIM-0208-MC	1/8"-27 NPT	3/4"-16 UNF	19
NTM-JIM-0404-MC	1/4"-18 NPT	7/16"-20 UNF	14
NTM-JIM-0405-MC	1/4"-18 NPT	1/2"-20 UNF	14
NTM-JIM-0406-MC	1/4"-18 NPT	9/16"-18 UNF	17
NTM-JIM-0408-MC	1/4"-18 NPT	3/4"-16 UNF	19
NTM-JIM-0606-MC	3/8"-18 NPT	9/16"-18 UNF	19
NTM-JIM-0604-MC	3/8"-18 NPT	7/16"-20 UNF	19
NTM-JIM-0605-MC	3/8"-18 NPT	1/2"-20 UNF	19
NTM-JIM-0608-MC	3/8"-18 NPT	3/4"-16 UNF	19
NTM-JIM-0610-MC	3/8"-18 NPT	7/8"-14 UNF	24
NTM-JIM-0612-MC	3/8"-18 NPT	1.1/16"-12 UN	27
NTM-JIM-0804-MC	1/2"-14 NPT	7/16"-20 UNF	24
NTM-JIM-0805-MC	1/2"-14 NPT	1/2"-20 UNF	24
NTM-JIM-0806-MC	1/2"-14 NPT	9/16"-18 UNF	24
NTM-JIM-0808-MC	1/2"-14 NPT	3/4"-16 UNF	24
NTM-JIM-0810-MC	1/2"-14 NPT	7/8"-14 UNF	24
NTM-JIM-0812-MC	1/2"-14 NPT	1.1/16"-12 UN	27
NTM-JIM-0816-MC	1/2"-14 NPT	1.5/16"-12 UN	36
NTM-JIM-1204-MC	3/4"-14 NPT	7/16"-20 UNF	27
NTM-JIM-1206-MC	3/4"-14 NPT	9/16"-18 UNF	27
NTM-JIM-1208-MC	3/4"-14 NPT	3/4"-16 UNF	27
NTM-JIM-1210-MC	3/4"-14 NPT	7/8"-14 UNF	27
NTM-JIM-1212-MC	3/4"-14 NPT	1.1/16"-12 UN	27
NTM-JIM-1214-MC	3/4"-14 NPT	1.3/16"-12 UN	32
NTM-JIM-1216-MC	3/4"-14 NPT	1.5/16"-12 UN	36

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JIC Male / NPT Male

Screw-in sockets

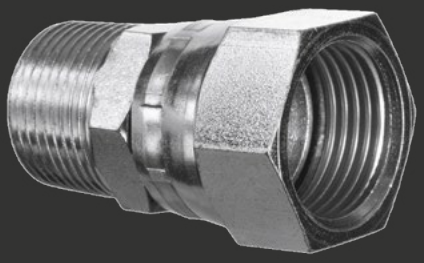
Identification	G1	G2	SW mm
NTM-JIM-1616-MC	1"-11.5 NPT	1.5/16"-12 UN	36
NTM-JIM-1612-MC	1"-11.5 NPT	1.1/16"-12 UN	36
NTM-JIM-1620-MC	1"-11.5 NPT	1.5/8"-12 UN	46
NTM-JIM-1624-MC	1"-11.5 NPT	1.7/8"-12 UN	50
NTM-JIM-2012-MC	1.1/4"-11.5 NPT	1.1/16"-12 UN	46
NTM-JIM-2016-MC	1.1/4"-11.5 NPT	1.5/16"-12 UN	46
NTM-JIM-2020-MC	1.1/4"-11.5 NPT	1.5/8"-12 UN	46
NTM-JIM-2024-MC	1.1/4"-11.5 NPT	1.7/8"-12 UN	50
NTM-JIM-2032-MC	1.1/4"-11.5 NPT	2.1/2"-12 UN	65
NTM-JIM-2412-MC	1.1/2"-11.5 NPT	1.1/16"-12 UN	50
NTM-JIM-2416-MC	1.1/2"-11.5 NPT	1.5/16"-12 UN	50
NTM-JIM-2420-MC	1.1/2"-11.5 NPT	1.5/8"-12 UN	50
NTM-JIM-2424-MC	1.1/2"–11.5 NPT	1.7/8"–12 UN	50
NTM-JIM-2432-MC	1.1/2"–11.5 NPT	2.1/2"–12 UN	65
NTM-JIM-3224-MC	2"–11.5 NPT	1.7/8"–12 UN	65
NTM-JIM-3232-MC	2"–11.5 NPT	2.1/2"–12 UN	65

SW = Width across flats

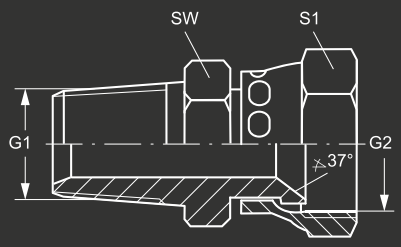
Product Version: Stainless Steel (SS)

JIC Female / NPT Male

Screw-in sockets



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1 NPT	G2 UNF / UN	SW mm	S1
NTM-JIF-0204-MC	1/8"–27 NPT	7/16"–20 UNF	14	14
NTM-JIF-0205-MC	1/8"–27 NPT	1/2"–20 UNF	14	17
NTM-JIF-0206-MC	1/8"–27 NPT	9/16"–18 UNF	17	14
NTM-JIF-0404-MC	1/4"–18 NPT	7/16"–20 UNF	14	14
NTM-JIF-0405-MC	1/4"–18 NPT	1/2"–20 UNF	16	16
NTM-JIF-0406-MC	1/4"–18 NPT	9/16"–18 UNF	17	17
NTM-JIF-0408-MC	1/4"–18 NPT	3/4"–16 UNF	19	22
NTM-JIF-0606-MC	3/8"–18 NPT	9/16"–18 UNF	19	17
NTM-JIF-0608-MC	3/8"–18 NPT	3/4"–16 UNF	22	22
NTM-JIF-0610-MC	3/8"–18 NPT	7/8"–14 UNF	22	27
NTM-JIF-0806-MC	1/2"–14 NPT	9/16"–18 UNF	25	19
NTM-JIF-0808-MC	1/2"–14 NPT	3/4"–16 UNF	22	22
NTM-JIF-0810-MC	1/2"–14 NPT	7/8"–14 UNF	25	25
NTM-JIF-0812-MC	1/2"–14 NPT	1.1/16"–12 UN	27	32
NTM-JIF-1208-MC	3/4"–14 NPT	3/4"–16 UNF	27	22
NTM-JIF-1210-MC	3/4"–14 NPT	7/8"–14 UNF	32	27
NTM-JIF-1212-MC	3/4"–14 NPT	1.1/16"–12 UN	27	32
NTM-JIF-1214-MC	3/4"–14 NPT	1.3/16"–12 UN	27	32
NTM-JIF-1216-MC	3/4"–14 NPT	1.5/16"–12 UN	32	38
NTM-JIF-1616-MC	1"–11.5 NPT	1.5/16"–12 UN	36	38
NTM-JIF-1620-MC	1"–11.5 NPT	1.5/8"–12 UN	36	50
NTM-JIF-2020-MC	1.1/4"–11.5 NPT	1.5/8"–12 UN	46	50
NTM-JIF-2424-MC	1.1/2"–11.5 NPT	1.7/8"–12 UN	58	58

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

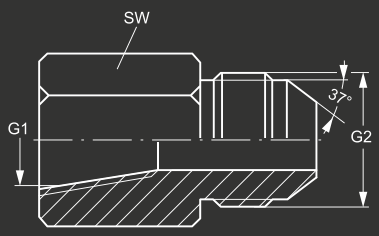
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JIC Male / NPT Fixed Female

Connection sockets



Connection 1:	NPT internal thread
Sealing form 1:	Thread seal
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Connection sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
NTF-JIM-0204-MC	1/8"–27 NPT	7/16"-20 UNF	14
NTF-JIM-0205-MC	1/8"–27 NPT	1/2"-20 UNF	14
NTF-JIM-0404-MC	1/4"–18 NPT	7/16"-20 UNF	19
NTF-JIM-0405-MC	1/4"–18 NPT	1/2"-20 UNF	19
NTF-JIM-0406-MC	1/4"–18 NPT	9/16"-18 UNF	19
NTF-JIM-0408-MC	1/4"–18 NPT	3/4"-16 UNF	21
NTF-JIM-0606-MC	3/8"–18 NPT	9/16"-18 UNF	22
NTF-JIM-0608-MC	3/8"–18 NPT	3/4"-16 UNF	22
NTF-JIM-0610-MC	3/8"–18 NPT	7/8"-14 UNF	29
NTF-JIM-0808-MC	1/2"–14 NPT	3/4"-16 UNF	29
NTF-JIM-0810-MC	1/2"–14 NPT	7/8"-14 UNF	29
NTF-JIM-0812-MC	1/2"–14 NPT	1.1/16"–12 UN	29
NTF-JIM-1212-MC	3/4"–14 NPT	1.1/16"–12 UN	35
NTF-JIM-1214-MC	3/4"–14 NPT	1.3/16"–12 UN	35
NTF-JIM-1616-MC	1"–11.5 NPT	1.5/16"–12 UN	41
NTF-JIM-2020-MC	1.1/4"–11.5 NPT	1.5/8"–12 UN	51
NTF-JIM-2424-MC	1.1/2"–11.5 NPT	1.7/8"–12 UN	60
NTF-JIM-3232-MC	2"–11.5 NPT	2.1/2"–12 UN	73

SW = Width across flats

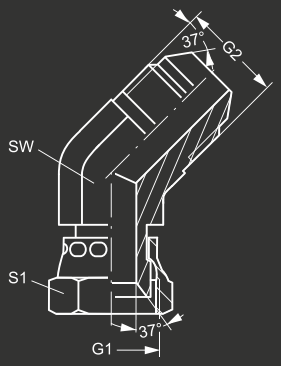
Product Version: Stainless Steel (SS)

JIC Male / JIC Swivel Female 45

Screw-on socket, angle 45°



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	Working pressure bar	G1	G2	SW mm	S1
JIF-JIM-45C-0404-MC	PN 350	7/16"-20 UNF	7/16"-20 UNF	12	14
JIF-JIM-45C-0505-MC	PN 350	1/2"-20 UNF	1/2"-20 UNF	14	16
JIF-JIM-45C-0606-MC	PN 250	9/16"-18 UNF	9/16"-18 UNF	14	19
JIF-JIM-45C-0808-MC	PN 250	3/4"-16 UNF	3/4"-16 UNF	19	22
JIF-JIM-45C-1010-MC	PN 200	7/8"-14 UNF	7/8"-14 UNF	22	27
JIF-JIM-45C-1212-MC	PN 200	1.1/16"-12 UN	1.1/16"-12 UN	27	32
JIF-JIM-45C-1414-MC	PN 160	1.3/16"-12 UN	1.3/16"-12 UN	32	36
JIF-JIM-45C-1616-MC	PN 160	1.5/16"-12 UN	1.5/16"-12 UN	33	41
JIF-JIM-45C-2020-MC	PN 125	1.5/8"-12 UN	1.5/8"-12 UN	41	50
JIF-JIM-45C-2424-MC	PN 100	1.7/8"-12 UN	1.7/8"-12 UN	48	60
JIF-JIM-45C-3232-MC	PN 80	2.1/2"-12 UN	2.1/2"-12 UN	65	75

SW, S1, S2 = Width across flats

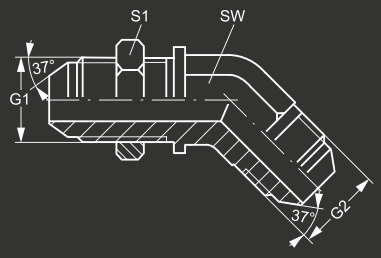
Product Version: Stainless Steel (SS)

JIC Bulkhead 45

Bulkhead fitting socket, angle 45°



Connection 1:	UN / UNF external threads
Sealing form 1:	74° outer cone
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Bulkhead fitting socket
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm	S1
JBM-JIM-45C-0404-MC	7/16"-20 UNF	11	17
JBM-JIM-45C-0505-MC	1/2"-20 UNF	14	19
JBM-JIM-45C-0606-MC	9/16"-18 UNF	14	21
JBM-JIM-45C-0808-MC	3/4"-16 UNF	19	25
JBM-JIM-45C-1010-MC	7/8"-14 UNF	22	29
JBM-JIM-45C-1212-MC	1.1/16"-12 UN	27	35
JBM-JIM-45C-1616-MC	1.5/16"-12 UN	33	41
JBM-JIM-45C-2020-MC	1.5/8"-12 UN	41	48
JBM-JIM-45C-2424-MC	1.7/8"-12 UN	48	55

SW, S1, S2 = Width across flats

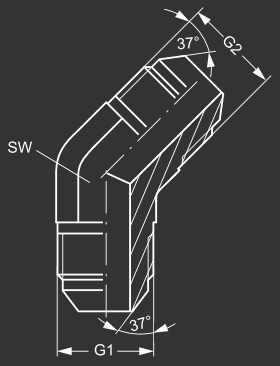
Product Version: Stainless Steel (SS)

JIC Male / Male 45

Fitting socket, angle 45°



Connection 1:	UN / UNF external threads
Sealing form 1:	74° outer cone
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Fitting socket
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™

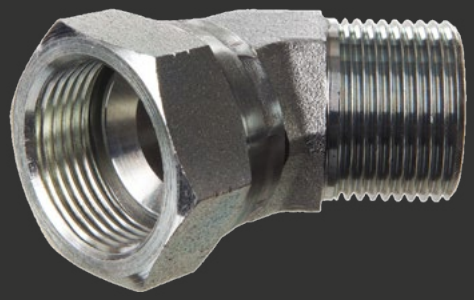


Identification	G1 + G2	SW mm
JIM-JIM-45C-0404-MC	7/16"-20 UNF	11
JIM-JIM-45C-0505-MC	1/2"-20 UNF	13
JIM-JIM-45C-0606-MC	9/16"-18 UNF	14
JIM-JIM-45C-0808-MC	3/4"-16 UNF	19
JIM-JIM-45C-1010-MC	7/8"-14 UNF	22
JIM-JIM-45C-1212-MC	1.1/16"–12 UN	27
JIM-JIM-45C-1616-MC	1.5/16"–12 UN	33

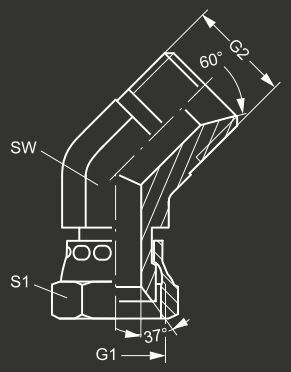
SW = Width across flats

JIC Female / BSPP Male 45

Connection socket, angle 45°



Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Connection sockets
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1
JIF-BPM-45C-0404-MC	7/16"-20 UNF	G 1/4"–19	14	17
JIF-BPM-45C-0606-MC	9/16"-18 UNF	G 3/8"–19	17	19
JIF-BPM-45C-0808-MC	3/4"-16 UNF	G 1/2"–14	19	24
JIF-BPM-45C-1010-MC	7/8"-14 UNF	G 5/8"–14	24	27
JIF-BPM-45C-1212-MC	1.1/16"–12 UN	G 3/4"–14	27	32
JIF-BPM-45C-1616-MC	1.5/16"–12 UN	G 1"–11	36	41

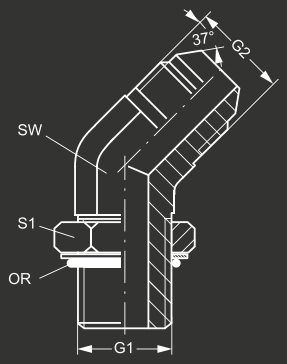
SW, S1, S2 = Width across flats

JIC Male / UNO Male Positional 45

Screw-in socket, angle 45°



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Adjustable direction screw-in socket
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR
UNP-JIM-45C-0404-MC	7/16"-20 UNF	7/16"-20 UNF	11	14	8.92 x 1.83
UNP-JIM-45C-0504-MC	1/2"-20 UNF	7/16"-20 UNF	13	16	10.52 x 1.83
UNP-JIM-45C-0505-MC	1/2"-20 UNF	1/2"-20 UNF	13	16	10.52 x 1.83
UNP-JIM-45C-0606-MC	9/16"-18 UNF	9/16"-18 UNF	14	17	11.90 x 1.98
UNP-JIM-45C-0608-MC	9/16"-18 UNF	3/4"-16 UNF	19	17	11.90 x 1.98
UNP-JIM-45C-0806-MC	3/4"-16 UNF	9/16"-18 UNF	19	22	16.36 x 2.20
UNP-JIM-45C-0808-MC	3/4"-16 UNF	3/4"-16 UNF	19	22	16.36 x 2.20
UNP-JIM-45C-0810-MC	3/4"-16 UNF	7/8"-14 UNF	22	22	16.36 x 2.20
UNP-JIM-45C-0812-MC	3/4"-16 UNF	1.1/16"-12 UN	22	27	16.36 x 2.20
UNP-JIM-45C-1008-MC	7/8"-14 UNF	3/4"-16 UNF	22	25	19.18 x 2.46
UNP-JIM-45C-1010-MC	7/8"-14 UNF	7/8"-14 UNF	22	27	19.18 x 2.46
UNP-JIM-45C-1012-MC	7/8"-14 UNF	1.1/16"-12 UN	27	25	19.18 x 2.46
UNP-JIM-45C-1208-MC	1.1/16"-12 UN	3/4"-16 UNF	22	32	23.47 x 2.95
UNP-JIM-45C-1210-MC	1.1/16"-12 UN	7/8"-14 UNF	32	22	23.47 x 2.95
UNP-JIM-45C-1212-MC	1.1/16"-12 UN	1.1/16"-12 UN	27	32	23.47 x 2.95
UNP-JIM-45C-1216-MC	1.1/16"-12 UN	1.5/16"-12 UN	33	32	23.47 x 2.95
UNP-JIM-45C-1612-MC	1.5/16"-12 UN	1.1/16"-12 UN	38	27	29.74 x 2.95
UNP-JIM-45C-1616-MC	1.5/16"-12 UN	1.5/16"-12 UN	33	38	29.74 x 2.95
UNP-JIM-45C-1620-MC	1.5/16"-12 UN	1.5/8"-12 UN	41	38	29.74 x 2.95
UNP-JIM-45C-2016-MC	1.5/8"-12 UN	1.5/16"-12 UN	33	48	37.47 x 3.00
UNP-JIM-45C-2020-MC	1.5/8"-12 UN	1.5/8"-12 UN	41	48	37.47 x 3.00
UNP-JIM-45C-2424-MC	1.7/8"-12 UN	1.7/8"-12 UN	48	54	43.69 x 3.00
UNP-JIM-45C-3232-MC	2.1/2"-12 UN	2.1/2"-12 UN	66	70	59.36 x 3.00

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

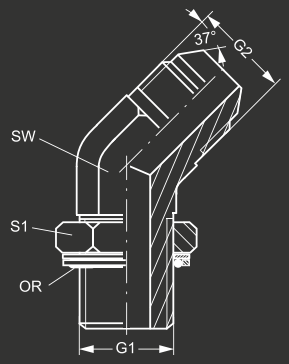
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JIC Male / Metric Male Positional 45

Screw-in socket, angle 45°



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Adjustable direction screw-in socket
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR
MMP-JIM-45C-1004-MC	M 10 x 1	7/16"-20 UNF	11	13	8.00 x 1.50
MMP-JIM-45C-1005-MC	M 10 x 1	1/2"-20 UNF	13	13	8.00 x 1.50
MMP-JIM-45C-1204-MC	M 12 x 1.5	7/16"-20 UNF	13	17	9.30 x 2.30
MMP-JIM-45C-1205-MC	M 12 x 1.5	1/2"-20 UNF	13	17	9.30 x 2.30
MMP-JIM-45C-1405-MC	M 14 x 1.5	1/2"-20 UNF	14	17	11.30 x 2.30
MMP-JIM-45C-1406-MC	M 14 x 1.5	9/16"-18 UNF	14	17	11.30 x 2.30
MMP-JIM-45C-1606-MC	M 16 x 1.5	9/16"-18 UNF	19	19	13.30 x 2.30
MMP-JIM-45C-1608-MC	M 16 x 1.5	3/4"-16 UNF	19	19	13.30 x 2.30
MMP-JIM-45C-1806-MC	M 18 x 1.5	9/16"-18 UNF	19	22	15.30 x 2.30
MMP-JIM-45C-1808-MC	M 18 x 1.5	3/4"-16 UNF	19	22	15.30 x 2.30
MMP-JIM-45C-1810-MC	M 18 x 1.5	7/8"-14 UNF	22	22	15.30 x 2.30
MMP-JIM-45C-2010-MC	M 20 x 1.5	7/8"-14 UNF	22	27	17.30 x 2.30
MMP-JIM-45C-2210-MC	M 22 x 1.5	7/8"-14 UNF	22	27	19.30 x 2.30
MMP-JIM-45C-2212-MC	M 22 x 1.5	1.1/16"-12 UN	27	27	19.30 x 2.30
MMP-JIM-45C-2614-MC	M 26 x 1.5	1.3/16"-12 UN	27	35	23.50 x 2.60
MMP-JIM-45C-2712-MC	M 27 x 2	1.1/16"-12 UN	27	32	23.47 x 2.95
MMP-JIM-45C-2716-MC	M 27 x 2	1.5/16"-12 UN	33	32	23.47 x 2.95
MMP-JIM-45C-3316-MC	M 33 x 2	1.5/16"-12 UN	33	38	29.74 x 2.95
MMP-JIM-45C-4220-MC	M 42 x 2	1.5/8"-12 UN	41	50	38.00 x 3.00

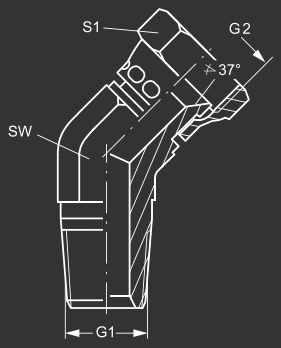
SW, S1, S2 = Width across flats

JIC Swivel Female / BSPT Male 45

Screw-in socket, angle 45°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	UN / UNF external threads
Sealing form 2:	74° inner cone
Design:	Screw-in sockets
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



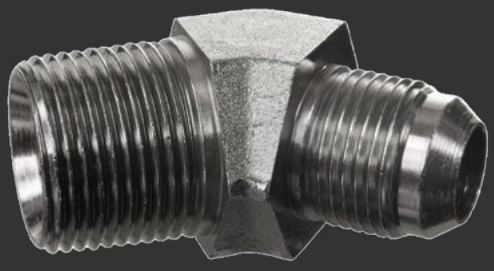
Identification	G1	G2	SW mm	S1
BTM-JIF-45C-0404-MC	R 1/4"K	7/16"-20 UNF	14	16
BTM-JIF-45C-0606-MC	R 3/8"K	9/16"-18 UNF	19	19
BTM-JIF-45C-0808-MC	R 1/2"K	3/4"-16 UNF	22	22
BTM-JIF-45C-0810-MC	R 1/2"K	7/8"-14 UNF	22	27
BTM-JIF-45C-1212-MC	R 3/4"K	1.1/16"–12 UN	32	27

SW = Width across flats

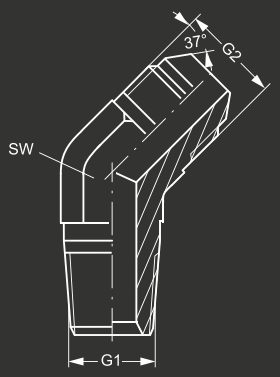
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JIC Male / BSPT Male 45

Screw-in socket, angle 45°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	UN / UNF external threads
Sealing form 2:	74° inner cone
Design:	Adjustable direction screw-in socket
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BTM-JIM-45C-0204-MC	R 1/8"K	7/16"-20 UNF	11
BTM-JIM-45C-0205-MC	R 1/8"K	1/2"-20 UNF	13
BTM-JIM-45C-0206-MC	R 1/8"K	9/16"-18 UNF	14
BTM-JIM-45C-0404-MC	R 1/4"K	7/16"-20 UNF	14
BTM-JIM-45C-0405-MC	R 1/4"K	1/2"-20 UNF	22
BTM-JIM-45C-0406-MC	R 1/4"K	9/16"-18 UNF	14
BTM-JIM-45C-0408-MC	R 1/4"K	3/4"-16 UNF	19
BTM-JIM-45C-0604-MC	R 3/8"K	7/16"-20 UNF	19
BTM-JIM-45C-0605-MC	R 3/8"K	1/2"-20 UNF	14
BTM-JIM-45C-0606-MC	R 3/8"K	9/16"-18 UNF	19
BTM-JIM-45C-0608-MC	R 3/8"K	3/4"-16 UNF	19
BTM-JIM-45C-0610-MC	R 3/8"K	7/8"-14 UNF	22
BTM-JIM-45C-0804-MC	R 1/2"K	7/16"-20 UNF	22
BTM-JIM-45C-0806-MC	R 1/2"K	9/16"-18 UNF	22
BTM-JIM-45C-0808-MC	R 1/2"K	3/4"-16 UNF	22
BTM-JIM-45C-0810-MC	R 1/2"K	7/8"-14 UNF	22
BTM-JIM-45C-0812-MC	R 1/2"K	1.1/16"–12 UN	27
BTM-JIM-45C-1212-MC	R 3/4"K	1.1/16"–12 UN	37
BTM-JIM-45C-1210-MC	R 3/4"K	7/8"-14 UNF	27
BTM-JIM-45C-1216-MC	R 3/4"K	1.5/16"–12 UN	33
BTM-JIM-45C-1610-MC	R 1"K	7/8"-14 UNF	33
BTM-JIM-45C-1612-MC	R 1"K	1.1/16"–12 UN	33
BTM-JIM-45C-1616-MC	R 1"K	1.5/16"–12 UN	33
BTM-JIM-45C-1620-MC	R 1"K	1.5/8"–12 UN	41
BTM-JIM-45C-2020-MC	R 1.1/4"K	1.5/8"–12 UN	41
BTM-JIM-45C-2424-MC	R 1.1/2"K	1.7/8"–12 UN	48
BTM-JIM-45C-3232-MC	R 2"K	2.1/2"–12 UN	66

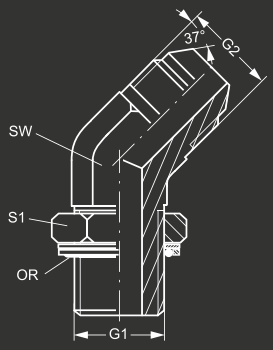
SW = Width across flats

JIC Male / BSPP Male Positional 45

Screw-in socket, angle 45°



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	UN / UNF external threads
Sealing form 2:	74° inner cone
Design:	Adjustable direction screw-in socket
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



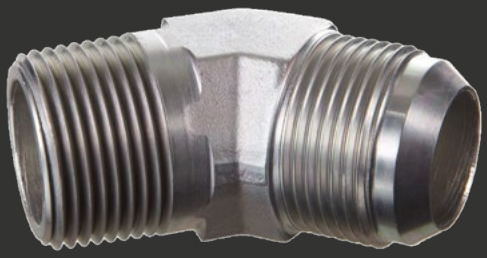
Identification	G1	G2	SW mm	S1	OR
BPP-JIM-45C-0204-MC	G 1/8"–28	7/16"-20 UNF	11	14	8.00 x 2.00
BPP-JIM-45C-0205-MC	G 1/8"–28	1/2"-20 UNF	13	14	8.00 x 2.00
BPP-JIM-45C-0404-MC	G 1/4"–19	7/16"-20 UNF	19	14	10.77 x 2.62
BPP-JIM-45C-0405-MC	G 1/4"–19	1/2"-20 UNF	14	19	10.77 x 2.62
BPP-JIM-45C-0406-MC	G 1/4"–19	9/16"-18 UNF	14	19	10.77 x 2.62
BPP-JIM-45C-0408-MC	G 1/4"–19	3/4"-16 UNF	19	19	10.77 x 2.62
BPP-JIM-45C-0604-MC	G 3/8"–19	7/16"-20 UNF	19	22	13.94 x 2.62
BPP-JIM-45C-0605-MC	G 3/8"–19	1/2"-20 UNF	19	22	13.94 x 2.62
BPP-JIM-45C-0606-MC	G 3/8"–19	9/16"-18 UNF	19	22	13.94 x 2.62
BPP-JIM-45C-0608-MC	G 3/8"–19	3/4"-16 UNF	19	22	13.94 x 2.62
BPP-JIM-45C-0610-MC	G 3/8"–19	7/8"-14 UNF	22	22	13.94 x 2.62
BPP-JIM-45C-0804-MC	G 1/2"–14	7/16"-20 UNF	22	27	17.86 x 2.62
BPP-JIM-45C-0806-MC	G 1/2"–14	9/16"-18 UNF	22	27	17.86 x 2.62
BPP-JIM-45C-0808-MC	G 1/2"–14	3/4"-16 UNF	22	27	17.86 x 2.62
BPP-JIM-45C-0810-MC	G 1/2"–14	7/8"-14 UNF	22	27	17.86 x 2.62
BPP-JIM-45C-0812-MC	G 1/2"–14	1.1/16"–12 UN	27	27	17.86 x 2.62
BPP-JIM-45C-1010-MC	G 5/8"–14	7/8"-14 UNF	22	27	19.70 x 2.62
BPP-JIM-45C-1012-MC	G 5/8"–14	1.1/16"–12 UN	27	36	19.70 x 2.62
BPP-JIM-45C-1208-MC	G 3/4"–14	3/4"-16 UNF	27	36	23.47 x 2.62
BPP-JIM-45C-1210-MC	G 3/4"–14	7/8"-14 UNF	27	36	23.47 x 2.62
BPP-JIM-45C-1212-MC	G 3/4"–14	1.1/16"–12 UN	27	36	23.47 x 2.62
BPP-JIM-45C-1216-MC	G 3/4"–14	1.5/16"–12 UN	33	36	23.47 x 2.62
BPP-JIM-45C-1612-MC	G 1"–11	1.1/16"–12 UN	33	41	29.74 x 3.53
BPP-JIM-45C-1616-MC	G 1"–11	1.5/16"–12 UN	33	41	23.47 x 3.53
BPP-JIM-45C-1620-MC	G 1"–11	1.5/8"–12 UN	41	41	29.74 x 3.53
BPP-JIM-45C-2016-MC	G 1.1/4"–11	1.5/16"–12 UN	33	50	37.69 x 3.53
BPP-JIM-45C-2020-MC	G 1.1/4"–11	1.5/8"–12 UN	41	50	37.96 x 3.53
BPP-JIM-45C-2024-MC	G 1.1/4"–11	1.7/8"–12 UN	48	50	37.69 x 3.53
BPP-JIM-45C-2424-MC	G 1.1/2"–11	1.7/8"–12 UN	48	55	44.04 x 3.53

SW, S1, S2 = Width across flats

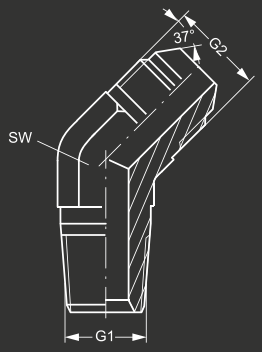
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JIC Male / NPT Male 45

Screw-in socket, angle 45°



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2:	UN / UNF external threads
Sealing form 2:	74° inner cone
Design:	Screw-in sockets
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 NPT	G2 UN / UNF	SW mm
NTM-JIM-45C-0204-MC	1/8″–27 NPT	7/16″-20 UNF	11
NTM-JIM-45C-0205-MC	1/8″–27 NPT	1/2″-20 UNF	13
NTM-JIM-45C-0206-MC	1/8″–27 NPT	9/16″-18 UNF	14
NTM-JIM-45C-0404-MC	1/4″–18 NPT	7/16″-20 UNF	14
NTM-JIM-45C-0404-MC	1/4″–18 NPT	1/2″-20 UNF	14
NTM-JIM-45C-0404-MC	1/4″–18 NPT	9/16″-18 UNF	14
NTM-JIM-45C-0404-MC	1/4″–18 NPT	3/4″-16 UNF	19
NTM-JIM-45C-0606-MC	3/8″–18 NPT	9/16″-18 UNF	19
NTM-JIM-45C-0606-MC	3/8″–18 NPT	3/4″-16 UNF	19
NTM-JIM-45C-0606-MC	3/8″–18 NPT	7/8″-14 UNF	22
NTM-JIM-45C-0808-MC	1/2″–14 NPT	3/4″-16 UNF	22
NTM-JIM-45C-0808-MC	1/2″–14 NPT	9/16″-18 UNF	22
NTM-JIM-45C-0808-MC	1/2″–14 NPT	7/8″-14 UNF	22
NTM-JIM-45C-0808-MC	1/2″–14 NPT	1.1/16″–12 UN	27
NTM-JIM-45C-1212-MC	3/4″–14 NPT	1.1/16″–12 UN	27
NTM-JIM-45C-1212-MC	3/4″–14 NPT	3/4″-16 UNF	27
NTM-JIM-45C-1212-MC	3/4″–14 NPT	7/8″-14 UNF	27
NTM-JIM-45C-1212-MC	3/4″–14 NPT	1.3/16″–12 UN	33
NTM-JIM-45C-1212-MC	3/4″–14 NPT	1.5/16″–12 UN	33
NTM-JIM-45C-1616-MC	1″–11.5 NPT	1.5/16″–12 UN	33
NTM-JIM-45C-1616-MC	1″–11.5 NPT	1.1/16″–12 UN	33
NTM-JIM-45C-1616-MC	1″–11.5 NPT	1.5/8″–12 UN	41
NTM-JIM-45C-2020-MC	1.1/4″–11.5 NPT	1.5/8″–12 UN	41
NTM-JIM-45C-2424-MC	1.1/2″–11.5 NPT	1.7/8″–12 UN	48
NTM-JIM-45C-3232-MC	2″–11.5 NPT	2.1/2″–12 UN	55

SW = Width across flats

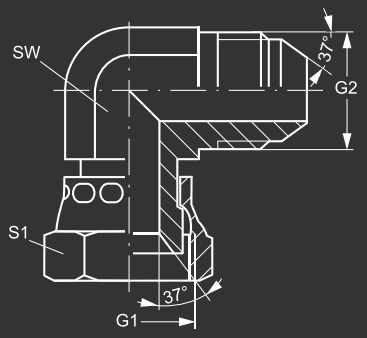
Product Version: Stainless Steel (SS)

JIC Male / Swivel Female 90

Screw-on socket, angle 90°



Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Screw-on socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm	S1
JIF-JIM-90C-0404-MC	7/16"-20 UNF	12	14
JIF-JIM-90C-0505-MC	1/2"-20 UNF	13	17
JIF-JIM-90C-0606-MC	9/16"-18 UNF	14	19
JIF-JIM-90C-0808-MC	3/4"-16 UNF	19	22
JIF-JIM-90C-1010-MC	7/8"-14 UNF	22	27
JIF-JIM-90C-1212-MC	1.1/16"-12 UN	27	32
JIF-JIM-90C-1414-MC	1.3/16"-12 UN	33	36
JIF-JIM-90C-1616-MC	1.5/16"-12 UN	33	41
JIF-JIM-90C-2020-MC	1.5/8"-12 UN	41	50
JIF-JIM-90C-2424-MC	1.7/8"-12 UN	48	60
JIF-JIM-90C-3232-MC	2.1/2"-12 UN	65	75

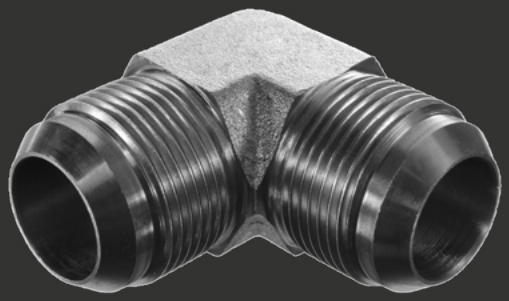
SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

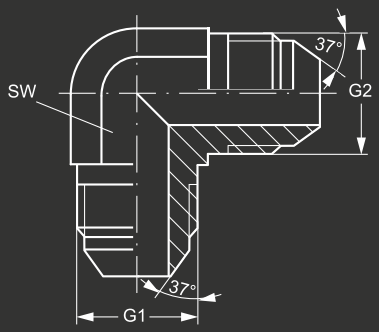
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JIC Male / Male 90

Fitting socket, angle 90°



Connection 1:	UN / UNF external threads
Sealing form 1:	74° inner cone
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Fitting socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm
JIM-JIM-90C-0404-MC	7/16″-20 UNF	11
JIM-JIM-90C-0505-MC	1/2″-20 UNF	13
JIM-JIM-90C-0606-MC	9/16″-18 UNF	14
JIM-JIM-90C-0808-MC	3/4″-16 UNF	19
JIM-JIM-90C-1010-MC	7/8″-14 UNF	22
JIM-JIM-90C-1212-MC	1.1/16″–12 UN	27
JIM-JIM-90C-1414-MC	1.3/16″–12 UN	30
JIM-JIM-90C-1616-MC	1.5/16″–12 UN	33
JIM-JIM-90C-2020-MC	1.5/8″–12 UN	41
JIM-JIM-90C-2424-MC	1.7/8″–12 UN	48
JIM-JIM-90C-3232-MC	2.1/2″–12 UN	64

SW = Width across flats

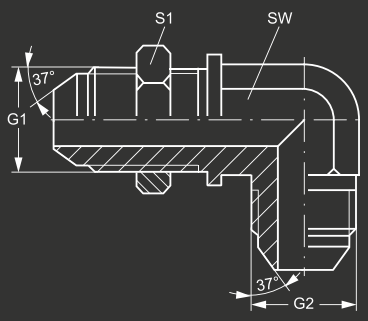
Product Version: Stainless Steel (SS)

JIC Bulkhead 90

Bulkhead fitting socket, angle 90°



Connection 1:	UN / UNF external threads
Sealing form 1:	74° inner cone
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Bulkhead fitting socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm	S1
JBM-JIM-90C-0404-MC	7/16"-20 UNF	11	17
JBM-JIM-90C-0505-MC	1/2"-20 UNF	13	19
JBM-JIM-90C-0606-MC	9/16"-18 UNF	14	22
JBM-JIM-90C-0808-MC	3/4"-16 UNF	19	24
JBM-JIM-90C-1010-MC	7/8"-14 UNF	22	30
JBM-JIM-90C-1212-MC	1.1/16"–12 UN	27	36
JBM-JIM-90C-1414-MC	1.3/16"–12 UN	41	38
JBM-JIM-90C-1616-MC	1.5/16"–12 UN	41	41
JBM-JIM-90C-2020-MC	1.5/8"–12 UN	41	48
JBM-JIM-90C-2424-MC	1.7/8"–12 UN	55	55

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

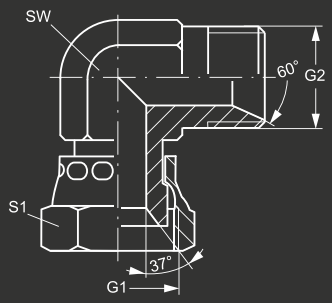
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JIC Female / BSPP Male 90

Connection socket, angle 90°



Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Connection 2:	BSP External Thread
Sealing form 2:	60° inner cone
Design:	Connection sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1
JIF-BPM-90C-0404-MC	7/16"-20 UNF	G 1/4"–19	17	17
JIF-BPM-90C-0606-MC	9/16"-18 UNF	G 3/8"–19	19	14
JIF-BPM-90C-0808-MC	3/4"-16 UNF	G 1/2"–14	22	19
JIF-BPM-90C-1010-MC	7/8"-14 UNF	G 5/8"–14	27	22
JIF-BPM-90C-1212-MC	1.1/16"–12 UN	G 3/4"–14	32	27

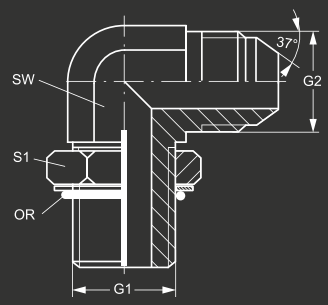
SW, S1, S2 = Width across flats

JIC Male / UNO Male positional 90

Screw-in socket, AGJ, angle 90°



Connection 1:	Screw-in socket, AGJ, angle 90°
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Adjustable direction screw-in socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR
UNP-JIM-90C-0404-MC	7/16″-20 UNF	7/16″-20 UNF	12	14	9.17 x 1.63
UNP-JIM-90C-0405-MC	7/16″-20 UNF	1/2″-20 UNF	12	14	9.17 x 1.63
UNP-JIM-90C-0406-MC	7/16″-20 UNF	9/16″-18 UNF	12	14	9.17 x 1.63
UNP-JIM-90C-0504-MC	1/2″-20 UNF	7/16″-20 UNF	13	17	10.52 x 1.83
UNP-JIM-90C-0505-MC	1/2″-20 UNF	1/2″-20 UNF	13	17	10.52 x 1.83
UNP-JIM-90C-0506-MC	1/2″-20 UNF	9/16″-18 UNF	13	17	10.52 x 1.83
UNP-JIM-90C-0604-MC	9/16″-18 UNF	7/16″-20 UNF	14	17	11.90 x 1.98
UNP-JIM-90C-0605-MC	9/16″-18 UNF	1/2″-20 UNF	14	17	11.90 x 1.98
UNP-JIM-90C-0606-MC	9/16″-18 UNF	9/16″-18 UNF	14	17	11.90 x 1.98
UNP-JIM-90C-0608-MC	9/16″-18 UNF	3/4″-16 UNF	14	17	11.90 x 1.98
UNP-JIM-90C-0806-MC	3/4″-16 UNF	9/16″-18 UNF	19	22	16.36 x 2.20
UNP-JIM-90C-0808-MC	3/4″-16 UNF	3/4″-16 UNF	19	22	16.36 x 2.20
UNP-JIM-90C-0810-MC	3/4″-16 UNF	7/8″-14 UNF	19	22	16.36 x 2.20
UNP-JIM-90C-0812-MC	3/4″-16 UNF	1.1/16″-12 UN	19	22	16.36 x 2.20
UNP-JIM-90C-1006-MC	7/8″-14 UNF	9/16″-18 UNF	22	27	19.18 x 2.46
UNP-JIM-90C-1008-MC	7/8″-14 UNF	3/4″-16 UNF	22	27	19.18 x 2.46
UNP-JIM-90C-1010-MC	7/8″-14 UNF	7/8″-14 UNF	22	27	19.18 x 2.46
UNP-JIM-90C-1012-MC	7/8″-14 UNF	1.1/16″-12 UN	22	27	19.18 x 2.46
UNP-JIM-90C-1208-MC	1.1/16″-12 UN	3/4″-16 UNF	27	32	23.47 x 2.95
UNP-JIM-90C-1210-MC	1.1/16″-12 UN	7/8″-14 UNF	27	32	23.47 x 2.95
UNP-JIM-90C-1212-MC	1.1/16″-12 UN	1.1/16″-12 UN	27	32	23.47 x 2.95
UNP-JIM-90C-1216-MC	1.1/16″-12 UN	1.5/16″-12 UN	27	32	23.47 x 2.95
UNP-JIM-90C-1612-MC	1.5/16″-12 UN	1.1/16″-12 UN	33	41	29.74 x 2.95
UNP-JIM-90C-1616-MC	1.5/16″-12 UN	1.5/16″-12 UN	33	41	29.74 x 2.95
UNP-JIM-90C-1620-MC	1.5/16″-12 UN	1.5/8″-12 UN	33	41	29.74 x 2.95
UNP-JIM-90C-2016-MC	1.5/8″-12 UN	1.5/16″-12 UN	41	50	37.47 x 3.00
UNP-JIM-90C-2020-MC	1.5/8″-12 UN	1.5/8″-12 UN	41	50	37.47 x 3.00
UNP-JIM-90C-2424-MC	1.7/8″-12 UN	1.7/8″-12 UN	48	55	43.69 x 3.00
UNP-JIM-90C-3232-MC	2.1/2″-12 UN	2.1/2″-12 UN	65	70	59.36 x 3.00

SW, S1, S2 = Width across flats
Product Version: Stainless Steel (SS)

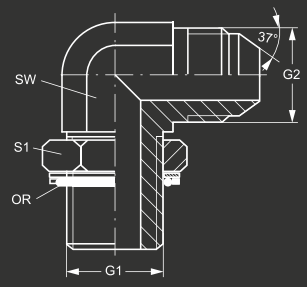
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JIC Male / Metric Male Positional 90

Screw-in socket, angle 90°



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Adjustable direction screw-in socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR
MMP-JIM-90C-1004-MC	M 10 x 1	7/16"-20 UNF	11	13	8.0 x 1.5
MMP-JIM-90C-1005-MC	M 10 x 1	1/2"-20 UNF	13	13	8.0 x 1.5
MMP-JIM-90C-1204-MC	M 12 x 1.5	7/16"-20 UNF	13	17	9.4 x 2.1
MMP-JIM-90C-1205-MC	M 12 x 1.5	1/2"-20 UNF	13	17	9.4 x 2.1
MMP-JIM-90C-1405-MC	M 14 x 1.5	1/2"-20 UNF	14	17	11.4 x 2.1
MMP-JIM-90C-1406-MC	M 14 x 1.5	9/16"-18 UNF	14	17	11.4 x 2.1
MMP-JIM-90C-1606-MC	M 16 x 1.5	9/16"-18 UNF	19	19	13.4 x 2.1
MMP-JIM-90C-1608-MC	M 16 x 1.5	3/4"-16 UNF	19	19	13.4 x 2.1
MMP-JIM-90C-1806-MC	M 18 x 1.5	9/16"-18 UNF	22	22	15.4 x 2.1
MMP-JIM-90C-1808-MC	M 18 x 1.5	3/4"-16 UNF	19	22	15.4 x 2.1
MMP-JIM-90C-1810-MC	M 18 x 1.5	7/8"-14 UNF	22	22	15.4 x 2.1
MMP-JIM-90C-2010-MC	M 20 x 1.5	7/8"-14 UNF	22	24	17.3 x 2.4
MMP-JIM-90C-2210-MC	M 22 x 1.5	7/8"-14 UNF	22	27	19.4 x 2.1
MMP-JIM-90C-2212-MC	M 22 x 1.5	1.1/16"–12 UN	27	27	19.4 x 2.1
MMP-JIM-90C-2614-MC	M 26 x 1.5	1.3/16"–12 UN	33	32	23.5 x 2.6
MMP-JIM-90C-2712-MC	M 27 x 2	1.1/16"–12 UN	27	32	23.7 x 2.8
MMP-JIM-90C-2716-MC	M 27 x 2	1.5/16"–12 UN	33	32	23.7 x 2.8
MMP-JIM-90C-3316-MC	M 33 x 2	1.5/16"–12 UN	33	38	29.7 x 2.8
MMP-JIM-90C-4220-MC	M 42 x 2	1.5/8"–12 UN	41	50	38.7 x 2.8
MMP-JIM-90C-4824-MC	M 48 x 2	1.7/8"–12 UN	48	55	46.7 x 2.8

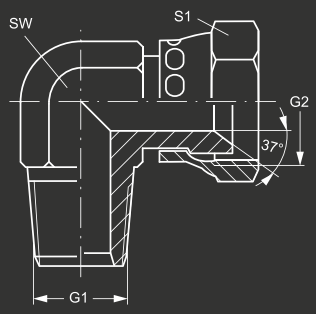
SW, S1, S2 = Width across flats

JIC Swivel Female / BSPT Male 90

Screw-in socket, angle 90°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	S2
BTM-JIF-90C-0404-MC	R 1/4"K	7/16"-20 UNF	14	16	18
BTM-JIF-90C-0606-MC	R 3/8"K	9/16"-18 UNF	19	19	22
BTM-JIF-90C-0808-MC	R 1/2"K	3/4"-16 UNF	22	22	32
BTM-JIF-90C-0810-MC	R 1/2"K	7/8"-14 UNF	22	27	25
BTM-JIF-90C-1212-MC	R 3/4"K	1.1/16"–12 UN	27	32	21

SW, S1, S2 = Width across flats

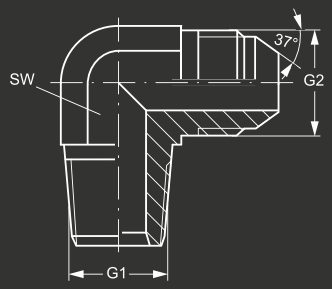
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JIC Male / BSPT Male 90

Screw-in socket, angle 90°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BTM-JIM-90C-0204-MC	R 1/8"K	7/16"-20 UNF	11
BTM-JIM-90C-0205-MC	R 1/8"K	1/2"-20 UNF	13
BTM-JIM-90C-0206-MC	R 1/8"K	9/16"-18 UNF	14
BTM-JIM-90C-0404-MC	R 1/4"K	7/16"-20 UNF	14
BTM-JIM-90C-0405-MC	R 1/4"K	1/2"-20 UNF	14
BTM-JIM-90C-0406-MC	R 1/4"K	9/16"-18 UNF	14
BTM-JIM-90C-0408-MC	R 1/4"K	3/4"-16 UNF	19
BTM-JIM-90C-0604-MC	R 3/8"K	7/16"-20 UNF	19
BTM-JIM-90C-0605-MC	R 3/8"K	1/2"-20 UNF	19
BTM-JIM-90C-0606-MC	R 3/8"K	9/16"-18 UNF	19
BTM-JIM-90C-0608-MC	R 3/8"K	3/4"-16 UNF	19
BTM-JIM-90C-0610-MC	R 3/8"K	7/8"-14 UNF	22
BTM-JIM-90C-0804-MC	R 1/2"K	7/16"-20 UNF	22
BTM-JIM-90C-0806-MC	R 1/2"K	9/16"-18 UNF	22
BTM-JIM-90C-0808-MC	R 1/2"K	3/4"-16 UNF	22
BTM-JIM-90C-0810-MC	R 1/2"K	7/8"-14 UNF	22
BTM-JIM-90C-0812-MC	R 1/2"K	1.1/16"-12 UN	27
BTM-JIM-90C-1208-MC	R 3/4"K	3/4"-16 UNF	27
BTM-JIM-90C-1210-MC	R 3/4"K	7/8"-14 UNF	27
BTM-JIM-90C-1212-MC	R 3/4"K	1.1/16"-12 UN	27
BTM-JIM-90C-1216-MC	R 3/4"K	1.5/16"-12 UN	33
BTM-JIM-90C-1610-MC	R 1"K	7/8"-14 UNF	33
BTM-JIM-90C-1612-MC	R 1"K	1.1/16"-12 UN	33
BTM-JIM-90C-1616-MC	R 1"K	1.5/16"-12 UN	33
BTM-JIM-90C-1620-MC	R 1"K	1.5/8"-12 UN	41
BTM-JIM-90C-2016-MC	R 1.1/4"K	1.5/16"-12 UN	41
BTM-JIM-90C-2020-MC	R 1.1/4"K	1.5/8"-12 UN	41
BTM-JIM-90C-2424-MC	R 1.1/2"K	1.7/8"-12 UN	48
BTM-JIM-90C-3232-MC	R 2"K	2.1/2"-12 UN	66

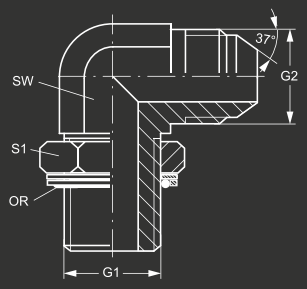
SW = Width across flats

JIC Male / BSPP Male Positional 90

Screw-in socket, angle 90°



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Adjustable direction screw-in socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



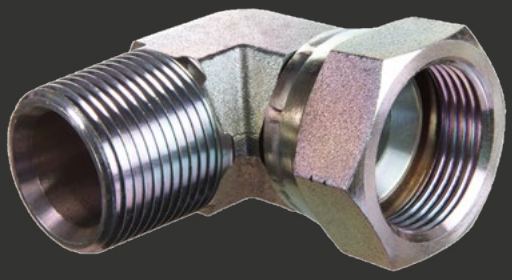
Identification	G1	G2	SW mm	S1	OR
BPP-JIM-90C-0204-MC	G 1/8″–28	7/16″-20 UNF	12	14	7.97 x 1.88
BPP-JIM-90C-0205-MC	G 1/8″–28	1/2″-20 UNF	14	14	7.97 x 1.88
BPP-JIM-90C-0404-MC	G 1/4″–19	7/16″-20 UNF	14	19	10.77 x 2.62
BPP-JIM-90C-0405-MC	G 1/4″–19	1/2″-20 UNF	14	19	10.77 x 2.62
BPP-JIM-90C-0405-MC	G 1/4″–19	9/16″-18 UNF	14	19	10.77 x 2.62
BPP-JIM-90C-0408-MC	G 1/4″–19	3/4″-16 UNF	19	19	10.77 x 2.62
BPP-JIM-90C-0604-MC	G 3/8″–19	7/16″-20 UNF	19	22	13.94 x 2.62
BPP-JIM-90C-0605-MC	G 3/8″–19	1/2″-20 UNF	19	22	13.94 x 2.62
BPP-JIM-90C-0606-MC	G 3/8″–19	9/16″-18 UNF	19	22	13.94 x 2.62
BPP-JIM-90C-0608-MC	G 3/8″–19	3/4″-16 UNF	19	22	13.94 x 2.62
BPP-JIM-90C-0610-MC	G 3/8″–19	7/8″-14 UNF	22	22	13.94 x 2.62
BPP-JIM-90C-0804-MC	G 1/2″–14	7/16″-20 UNF	19	27	17.86 x 2.62
BPP-JIM-90C-0806-MC	G 1/2″–14	9/16″-18 UNF	22	27	17.86 x 2.62
BPP-JIM-90C-0808-MC	G 1/2″–14	3/4″-16 UNF	22	27	17.86 x 2.62
BPP-JIM-90C-0810-MC	G 1/2″–14	7/8″-14 UNF	22	27	17.86 x 2.62
BPP-JIM-90C-0812-MC	G 1/2″–14	1.1/16″–12 UN	27	27	17.86 x 2.62
BPP-JIM-90C-1010-MC	G 5/8″–14	7/8″-14 UNF	22	30	19.70 x 2.62
BPP-JIM-90C-1208-MC	G 3/4″–14	3/4″-16 UNF	27	36	23.47 x 2.62
BPP-JIM-90C-1210-MC	G 3/4″–14	7/8″-14 UNF	27	36	23.47 x 2.62
BPP-JIM-90C-1212-MC	G 3/4″–14	1.1/16″–12 UN	27	36	23.47 x 2.62
BPP-JIM-90C-1214-MC	G 3/4″–14	1.3/16″–12 UN	33	36	23.47 x 2.62
BPP-JIM-90C-1216-MC	G 3/4″–14	1.5/16″–12 UN	33	36	23.47 x 2.62
BPP-JIM-90C-1612-MC	G 1″–11	1.1/16″–12 UN	33	41	29.74 x 3.53
BPP-JIM-90C-1616-MC	G 1″–11	1.5/16″–12 UN	33	41	29.74 x 3.53
BPP-JIM-90C-1620-MC	G 1″–11	1.5/8″–12 UN	41	41	29.74 x 3.53
BPP-JIM-90C-2016-MC	G 1.1/4″–11	1.5/16″–12 UN	41	50	37.69 x 3.53
BPP-JIM-90C-2020-MC	G 1.1/4″–11	1.5/8″–12 UN	41	50	37.69 x 3.53
BPP-JIM-90C-2024-MC	G 1.1/4″–11	1.7/8″–12 UN	48	50	37.69 x 3.53
BPP-JIM-90C-2424-MC	G 1.1/2″–11	1.7/8″–12 UN	48	55	44.04 x 3.53

SW, S1, S2 = Width across flats
Product Version: Stainless Steel (SS)

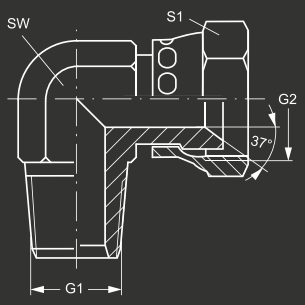
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JIC Swivel Female / NPT Male 90

Screw-in socket, angle 90°



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1
NTM-JIF-90C-0204-MC	1/8"–27 NPT	7/16"-20 UNF	13	14
NTM-JIF-90C-0205-MC	1/8"–27 NPT	1/2"-20 UNF	14	16
NTM-JIF-90C-0404-MC	1/4"–18 NPT	7/16"-20 UNF	14	14
NTM-JIF-90C-0406-MC	1/4"–18 NPT	9/16"-18 UNF	16	19
NTM-JIF-90C-0606-MC	3/8"–18 NPT	9/16"-18 UNF	19	19
NTM-JIF-90C-0608-MC	3/8"–18 NPT	3/4"-16 UNF	19	22
NTM-JIF-90C-0810-MC	1/2"–14 NPT	7/8"-14 UNF	24	27
NTM-JIF-90C-1212-MC	3/4"–14 NPT	1.1/16"–12 UN	27	32
NTM-JIF-90C-1616-MC	1"–11.5 NPT	1.5/16"–12 UN	36	38

SW, S1, S2 = Width across flats

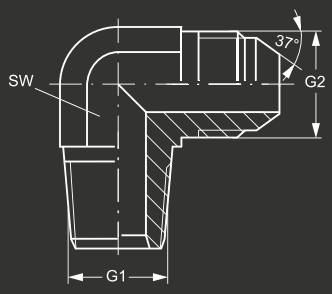
Product Version: Stainless Steel (SS)

JIC Male / NPT Male 90

Screw-in socket, angle 90°



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2:	UN / UNF external threads
Sealing form 2:	74° outer cone
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 NPT	G2 UN / UNF	SW mm
NTM-JIM-90C-0202-MC	1/8"–27 NPT	5/16"–24 UN	8
NTM-JIM-90C-0204-MC	1/8"–27 NPT	7/16"–20 UNF	11
NTM-JIM-90C-0205-MC	1/8"–27 NPT	1/2"–20 UNF	13
NTM-JIM-90C-0206-MC	1/8"–27 NPT	9/16"–18 UNF	14
NTM-JIM-90C-0404-MC	1/4"–18 NPT	7/16"–20 UNF	14
NTM-JIM-90C-0405-MC	1/4"–18 NPT	1/2"–20 UNF	14
NTM-JIM-90C-0406-MC	1/4"–18 NPT	9/16"–18 UNF	14
NTM-JIM-90C-0408-MC	1/4"–18 NPT	3/4"–16 UNF	19
NTM-JIM-90C-0604-MC	3/8"–18 NPT	7/16"–20 UNF	19
NTM-JIM-90C-0605-MC	3/8"–18 NPT	1/2"–20 UNF	19
NTM-JIM-90C-0606-MC	3/8"–18 NPT	9/16"–18 UNF	19
NTM-JIM-90C-0608-MC	3/8"–18 NPT	3/4"–16 UNF	19
NTM-JIM-90C-0610-MC	3/8"–18 NPT	7/8"–14 UNF	22
NTM-JIM-90C-0804-MC	1/2"–14 NPT	7/16"–20 UNF	22
NTM-JIM-90C-0805-MC	1/2"–14 NPT	1/2"–20 UNF	19
NTM-JIM-90C-0806-MC	1/2"–14 NPT	9/16"–18 UNF	22
NTM-JIM-90C-0808-MC	1/2"–14 NPT	3/4"–16 UNF	22
NTM-JIM-90C-0810-MC	1/2"–14 NPT	7/8"–14 UNF	22
NTM-JIM-90C-0812-MC	1/2"–14 NPT	1.1/16"–12 UN	27
NTM-JIM-90C-1206-MC	3/4"–14 NPT	9/16"–18 UNF	27
NTM-JIM-90C-1208-MC	3/4"–14 NPT	3/4"–16 UNF	27
NTM-JIM-90C-1210-MC	3/4"–14 NPT	7/8"–14 UNF	27
NTM-JIM-90C-1212-MC	3/4"–14 NPT	1.1/16"–12 UN	27
NTM-JIM-90C-1214-MC	3/4"–14 NPT	1.3/16"–12 UN	31
NTM-JIM-90C-1216-MC	3/4"–14 NPT	1.5/16"–12 UN	33

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

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JIC Male / NPT Male 90

Screw-in socket, angle 90°

Identification	G1 NPT	G2 UN / UNF	SW mm
NTM-JIM-90C-1612-MC	1"–11.5 NPT	1.1/16"–12 UN	33
NTM-JIM-90C-1616-MC	1"–11.5 NPT	1.5/16"–12 UN	33
NTM-JIM-90C-1620-MC	1"–11.5 NPT	1.5/8"–12 UN	41
NTM-JIM-90C-2016-MC	1.1/4"–11.5 NPT	1.5/16"–12 UN	45
NTM-JIM-90C-2020-MC	1.1/4"–11.5 NPT	1.5/8"–12 UN	45
NTM-JIM-90C-2024-MC	1.1/4"–11.5 NPT	1.7/8"–12 UN	48
NTM-JIM-90C-2420-MC	1.1/2"–11.5 NPT	1.5/8"–12 UN	48
NTM-JIM-90C-2424-MC	1.1/2"–11.5 NPT	1.7/8"–12 UN	48
NTM-JIM-90C-3232-MC	2"–11.5 NPT	2.1/2"–12 UN	64

SW, S1, S2 = Width across flats

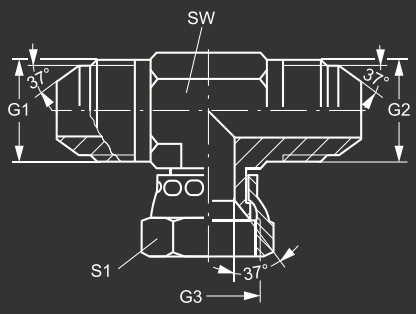
Product Version: Stainless Steel (SS)

JIC Male Tee / JIC Swivel Female Branch

Screw-on socket, T shaped



Connection 1:	UN / UNF nut threads
Sealing form 1:	74° inner cone
Connection 2+3:	UN / UNF external threads
Sealing form 2+3:	74° outer cone
Design:	Adjustable direction screw-on socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1
JIM-JIM-JIF-040404-MC	7/16″-20 UNF	7/16″-20 UNF	11	16
JIM-JIM-JIF-050505-MC	1/2″-20 UNF	1/2″-20 UNF	13	17
JIM-JIM-JIF-060606-MC	9/16″-18 UNF	9/16″-18 UNF	14	19
JIM-JIM-JIF-080808-MC	3/4″-16 UNF	3/4″-16 UNF	19	22
JIM-JIM-JIF-101010-MC	7/8″-14 UNF	7/8″-14 UNF	22	27
JIM-JIM-JIF-121212-MC	1.1/16″–12 UN	1.1/16″–12 UN	27	32
JIM-JIM-JIF-161616-MC	1.5/16″–12 UN	1.5/16″–12 UN	33	38
JIM-JIM-JIF-202020-MC	1.5/8″–12 UN	1.5/8″–12 UN	41	50
JIM-JIM-JIF-242424-MC	1.7/8″–12 UN	1.7/8″–12 UN	48	55

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

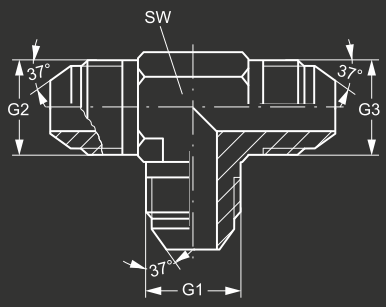
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JIC Male Tee

Connection socket, T shaped



Connection 1-3:	UN / UNF external threads
Sealing form 1-3:	74° outer cone
Design:	Connection sockets
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 - G3	SW mm
JIM-JIM-JIM-040404-MC	7/16″-20 UNF	11
JIM-JIM-JIM-050505-MC	1/2″-20 UNF	13
JIM-JIM-JIM-060606-MC	9/16″-18 UNF	14
JIM-JIM-JIM-080808-MC	3/4″-16 UNF	19
JIM-JIM-JIM-101010-MC	7/8″-14 UNF	22
JIM-JIM-JIM-121212-MC	1.1/16″–12 UN	27
JIM-JIM-JIM-141414-MC	1.3/16″–12 UN	33
JIM-JIM-JIM-161616-MC	1.5/16″–12 UN	33
JIM-JIM-JIM-202020-MC	1.5/8″–12 UN	41
JIM-JIM-JIM-242424-MC	1.7/8″–12 UN	48
JIM-JIM-JIM-323232-MC	2.1/2″–12 UN	66

SW = Width across flats

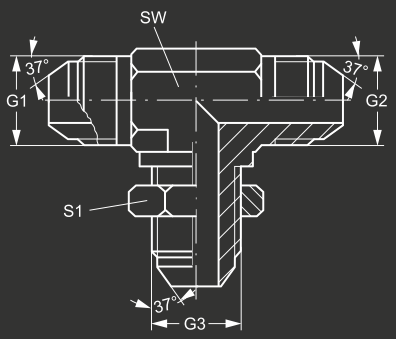
Product Version: Stainless Steel (SS)

JIC Bulkhead Branch Tee

Bulkhead fitting socket, T shaped



Connection 1-3:	UN / UNF external threads
Sealing form 1-3:	74° outer cone
Design:	Bulkhead fitting socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 - G3	SW mm	S1
JIM-JIM-JBM-040404-MC	7/16″-20 UNF	11	17
JIM-JIM-JBM-050505-MC	1/2″-20 UNF	14	19
JIM-JIM-JBM-060606-MC	9/16″-18 UNF	14	21
JIM-JIM-JBM-080808-MC	3/4″-16 UNF	19	25
JIM-JIM-JBM-101010-MC	7/8″-14 UNF	22	29
JIM-JIM-JBM-121212-MC	1.1/16″–12 UN	27	35

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

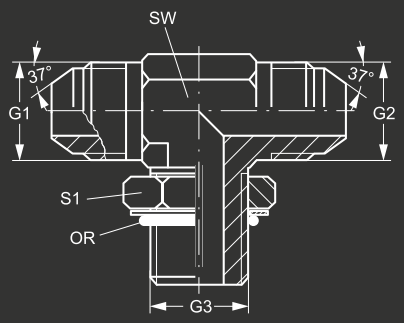
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JIC Male Tee / UNO Male Positional Branch

Screw-in socket, T shaped



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2+3:	UN / UNF external threads
Sealing form 2+3:	74° outer cone
Design:	Adjustable direction screw-on socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



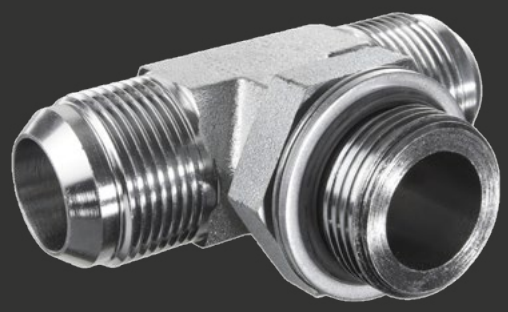
Identification	G1	G2 + G3	SW mm	S1	OR
JIM-JIM-UNP-040404-MC	7/16"-20 UNF	7/16"-20 UNF	11	14	8.92 x 1.83
JIM-JIM-UNP-050505-MC	1/2"-20 UNF	1/2"-20 UNF	14	16	10.52 x 1.83
JIM-JIM-UNP-060606-MC	9/16"-18 UNF	9/16"-18 UNF	14	17	11.90 x 1.98
JIM-JIM-UNP-080808-MC	3/4"-16 UNF	3/4"-16 UNF	19	22	16.36 x 2.20
JIM-JIM-UNP-101010-MC	7/8"-14 UNF	7/8"-14 UNF	22	27	19.18 x 2.46
JIM-JIM-UNP-121212-MC	1.1/16"–12 UN	1.1/16"–12 UN	27	32	23.47 x 2.95
JIM-JIM-UNP-161616-MC	1.5/16"–12 UN	1.5/16"–12 UN	33	38	29.74 x 2.95
JIM-JIM-UNP-202020-MC	1.5/8"–12 UN	1.5/8"–12 UN	42	48	37.47 x 3.00

SW, S1, S2 = Width across flats

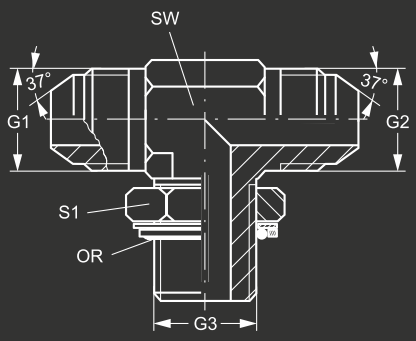
Product Version: Stainless Steel (SS)

JIC Male Tee / Metric Male Positional Branch

Screw-in socket, T shaped



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2+3:	UN / UNF external threads
Sealing form 2+3:	74° outer cone
Design:	Adjustable direction screw-on socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	G3	SW mm	S1	OR
JIM-JIM-UNP-040410-MC	7/16"-20 UNF	M 10 x 1	11	13	8.00 x 1.50
JIM-JIM-UNP-040412-MC	7/16"-20 UNF	M 12 x 1.5	13	17	9.25 x 1.78
JIM-JIM-UNP-050510-MC	1/2"-20 UNF	M 10 x 1	13	14	8.00 x 1.50
JIM-JIM-UNP-050512-MC	1/2"-20 UNF	M 12 x 1.5	13	17	9.25 x 1.78
JIM-JIM-UNP-050514-MC	1/2"-20 UNF	M 14 x 1.5	14	17	10.82 x 1.78
JIM-JIM-UNP-060614-MC	9/16"-18 UNF	M 14 x 1.5	14	17	10.82 x 1.78
JIM-JIM-UNP-060616-MC	9/16"-18 UNF	M 16 x 1.5	19	22	13.46 x 2.08
JIM-JIM-UNP-060618-MC	9/16"-18 UNF	M 18 x 1.5	19	24	15.54 x 2.62
JIM-JIM-UNP-080816-MC	3/4"-16 UNF	M 16 x 1.5	19	19	13.46 x 2.08
JIM-JIM-UNP-101018-MC	7/8"-14 UNF	M 18 x 1.5	22	24	15.54 x 2.62
JIM-JIM-UNP-101022-MC	7/8"-14 UNF	M 22 x 1.5	22	27	18.77 x 1.78
JIM-JIM-UNP-121222-MC	1.1/16"–12 UN	M 22 x 1.5	27	27	18.77 x 1.78
JIM-JIM-UNP-121227-MC	1.1/16"–12 UN	M 27 x 2	27	32	23.47 x 2.62
JIM-JIM-UNP-161627-MC	1.5/16"–12 UN	M 27 x 2	33	32	23.47 x 2.62
JIM-JIM-UNP-161633-MC	1.5/16"–12 UN	M 33 x 2	33	38	28.24 x 2.62
JIM-JIM-UNP-202042-MC	1.5/8"–12 UN	M 42 x 2	41	50	37.77 x 2.62
JIM-JIM-UNP-242448-MC	1.7/8"–12 UN	M 48 x 2	48	55	44.12 x 2.62

SW, S1, S2 = Width across flats

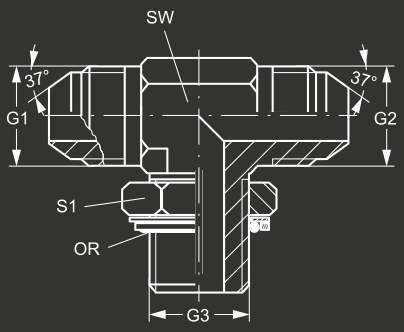
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JIC Male Tee / BSPP Male Positional Branch

Screw-in socket, T shaped



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2+3:	UN / UNF external threads
Sealing form 2+3:	74° outer cone
Design:	Adjustable direction screw-in socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	G3	SW mm	S1	OR
JIM-JIM-BPP-020404-MC	7/16"-20 UNF	G 1/8"–28	11	14	8.00 x 2.00
JIM-JIM-BPP-020505-MC	1/2"-20 UNF	G 1/8"–28	14	14	8.00 x 2.00
JIM-JIM-BPP-040404-MC	7/16"-20 UNF	G 1/4"–19	14	19	10.77 x 2.62
JIM-JIM-BPP-040505-MC	1/2"-20 UNF	G 1/4"–19	14	14	10.77 x 2.62
JIM-JIM-BPP-040606-MC	9/16"-18 UNF	G 1/4"–19	14	19	10.77 x 2.62
JIM-JIM-BPP-040808-MC	3/4"-16 UNF	G 1/4"–19	19	19	10.77 x 2.62
JIM-JIM-BPP-060404-MC	7/16"-20 UNF	G 3/8"–19	19	22	13.94 x 2.62
JIM-JIM-BPP-060505-MC	1/2"-20 UNF	G 3/8"–19	19	22	13.94 x 2.62
JIM-JIM-BPP-060606-MC	9/16"-18 UNF	G 3/8"–19	19	22	13.94 x 2.62
JIM-JIM-BPP-060808-MC	3/4"-16 UNF	G 3/8"–19	22	22	13.94 x 2.62
JIM-JIM-BPP-061010-MC	7/8"-14 UNF	G 3/8"–19	22	22	13.94 x 2.62
JIM-JIM-BPP-080404-MC	7/16"-20 UNF	G 1/2"–14	22	27	17.86 x 2.62
JIM-JIM-BPP-080606-MC	9/16"-18 UNF	G 1/2"–14	22	27	17.86 x 2.62
JIM-JIM-BPP-080808-MC	3/4"-16 UNF	G 1/2"–14	22	27	17.86 x 2.62
JIM-JIM-BPP-081010-MC	7/8"-14 UNF	G 1/2"–14	22	27	17.86 x 2.62
JIM-JIM-BPP-081212-MC	1.1/16"–12 UN	G 1/2"–14	27	27	17.86 x 2.62
JIM-JIM-BPP-120808-MC	3/4"-16 UNF	G 3/4"–14	27	36	23.47 x 2.62
JIM-JIM-BPP-121010-MC	7/8"-14 UNF	G 3/4"–14	27	36	23.47 x 2.62
JIM-JIM-BPP-121212-MC	1.1/16"–12 UN	G 3/4"–14	27	36	23.47 x 2.62
JIM-JIM-BPP-121616-MC	1.5/16"–12 UN	G 3/4"–14	33	36	23.47 x 2.62
JIM-JIM-BPP-161212-MC	1.1/16"–12 UN	G 1"–11	33	41	29.74 x 3.53
JIM-JIM-BPP-161616-MC	1.5/16"–12 UN	G 1"–11	33	41	29.74 x 3.53
JIM-JIM-BPP-162020-MC	1.5/8"–12 UN	G 1"–11	41	41	29.74 x 3.53
JIM-JIM-BPP-201616-MC	1.5/16"–12 UN	G 1.1/4"–11	41	50	37.69 x 3.53
JIM-JIM-BPP-202020-MC	1.5/8"–12 UN	G 1.1/4"–11	41	50	37.69 x 3.53
JIM-JIM-BPP-202424-MC	1.7/8"–12 UN	G 1.1/4"–11	48	50	37.69 x 3.53
JIM-JIM-BPP-242424-MC	1.7/8"–12 UN	G 1.1/2"–11	48	60	44.04 x 3.53

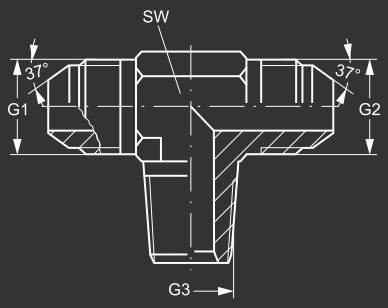
SW, S1, S2 = Width across flats
Product Version: Stainless Steel (SS)

JIC Male Tee / BSPT Male Branch

Screw-in socket, T shaped



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2+3:	UN / UNF external threads
Sealing form 2+3:	74° outer cone
Design:	Adjustable direction screw-in socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	G3	SW mm
JIM-JIM-BTM-040402-MC	7/16″-20 UNF	R 1/8″K	11
JIM-JIM-BTM-040404-MC	7/16″-20 UNF	R 1/4″K	14
JIM-JIM-BTM-050502-MC	1/2″-20 UNF	R 1/8″K	13
JIM-JIM-BTM-050504-MC	1/2″-20 UNF	R 1/4″K	14
JIM-JIM-BTM-060604-MC	9/16″-18 UNF	R 1/4″K	14
JIM-JIM-BTM-060606-MC	9/16″-18 UNF	R 3/8″K	19
JIM-JIM-BTM-080806-MC	3/4″-16 UNF	R 3/8″K	19
JIM-JIM-BTM-080808-MC	3/4″-16 UNF	R 1/2″K	22
JIM-JIM-BTM-101006-MC	7/8″-14 UNF	R 3/8″K	19
JIM-JIM-BTM-101008-MC	7/8″-14 UNF	R 1/2″K	22
JIM-JIM-BTM-101012-MC	7/8″-14 UNF	R 3/4″K	27
JIM-JIM-BTM-121208-MC	1.1/16″–12 UN	R 1/2″K	27
JIM-JIM-BTM-121212-MC	1.1/16″–12 UN	R 3/4″K	27
JIM-JIM-BTM-161616-MC	1.5/16″–12 UN	R 1″K	33

SW = Width across flats

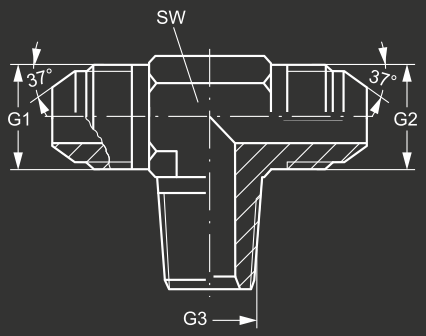
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JIC Male Tee / NPT Male Branch

Screw-in socket, T shaped



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2+3:	UN / UNF external threads
Sealing form 2+3:	74° outer cone
Design:	Screw-in sockets
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	G3	SW mm
JIM-JIM-NTM-040402-MC	7/16″–20 UNF	1/8″–27 NPT	11
JIM-JIM-NTM-040404-MC	7/16″–20 UNF	1/4″–18 NPT	14
JIM-JIM-NTM-050502-MC	1/2″–20 UNF	1/8″–27 NPT	14
JIM-JIM-NTM-050504-MC	1/2″–20 UNF	1/4″–18 NPT	14
JIM-JIM-NTM-060602-MC	9/16″–18 UNF	1/8″–27 NPT	14
JIM-JIM-NTM-060604-MC	9/16″–18 UNF	1/4″–18 NPT	14
JIM-JIM-NTM-060606-MC	9/16″–18 UNF	3/8″–18 NPT	19
JIM-JIM-NTM-060608-MC	9/16″–18 UNF	1/2″–14 NPT	22
JIM-JIM-NTM-080804-MC	3/4″–16 UNF	1/4″–18 NPT	19
JIM-JIM-NTM-080806-MC	3/4″–16 UNF	3/8″–18 NPT	19
JIM-JIM-NTM-080808-MC	3/4″–16 UNF	1/2″–14 NPT	22
JIM-JIM-NTM-101006-MC	7/8″–14 UNF	3/8″–18 NPT	22
JIM-JIM-NTM-101008-MC	7/8″–14 UNF	1/2″–14 NPT	22
JIM-JIM-NTM-121208-MC	1.1/16″–12 UN	1/2″–14 NPT	27
JIM-JIM-NTM-121212-MC	1.1/16″–12 UN	3/4″–14 NPT	27
JIM-JIM-NTM-161612-MC	1.5/16″–12 UN	3/4″–14 NPT	33
JIM-JIM-NTM-161616-MC	1.5/16″–12 UN	1″–11.5 NPT	33
JIM-JIM-NTM-202020-MC	1.5/8″–12 UN	1.1/4″–11.5 NPT	41
JIM-JIM-NTM-242424-MC	1.7/8″–12 UN	1.1/2″–11.5 NPT	48

SW = Width across flats

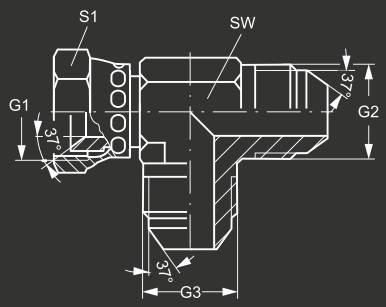
Product Version: Stainless Steel (SS)

JIC Male Tee / JIC Swivel Female Run

Screw-on socket, L shaped



Connection 1:	UN / UNF nut threads
Sealing form 1:	74° outer cone
Connection 2+3:	UN / UNF external threads
Sealing form 2+3:	74° outer cone
Design:	Adjustable direction screw-on socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1
JIM-JIF-JIM-040404-MC	7/16″-20 UNF	7/16″-20 UNF	12	14
JIM-JIF-JIM-050505-MC	1/2″-20 UNF	1/2″-20 UNF	13	17
JIM-JIF-JIM-060606-MC	9/16″-18 UNF	9/16″-18 UNF	14	19
JIM-JIF-JIM-080808-MC	3/4″-16 UNF	3/4″-16 UNF	19	22
JIM-JIF-JIM-101010-MC	7/8″-14 UNF	7/8″-14 UNF	22	17
JIM-JIF-JIM-121212-MC	1.1/16″–12 UN	1.1/16″–12 UN	27	32
JIM-JIF-JIM-141414-MC	1.3/16″–12 UN	1.3/16″–12 UN	33	36
JIM-JIF-JIM-161616-MC	1.5/16″–12 UN	1.5/16″–12 UN	33	41
JIM-JIF-JIM-202020-MC	1.5/8″–12 UN	1.5/8″–12 UN	41	50
JIM-JIF-JIM-242424-MC	1.7/8″–12 UN	1.7/8″–12 UN	48	60

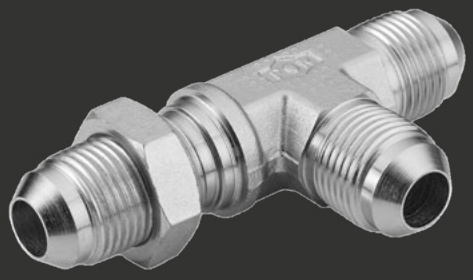
SW = Width across flats

Product Version: Stainless Steel (SS)

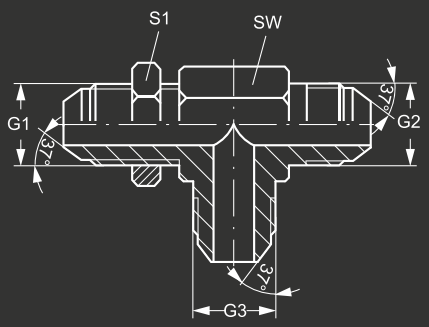
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JIC Bulkhead Tee Run

Bulkhead fitting socket, L shape



Connection 1-3:	UN / UNF external threads
Sealing form 1-3:	74° outer cone
Design:	Bulkhead fitting socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™

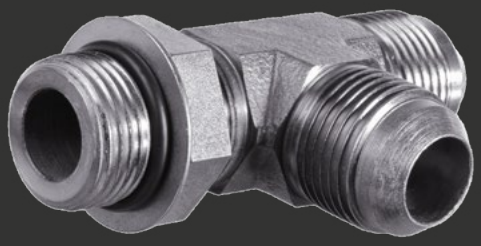


Identification	G1 - G3	SW mm	S1
JBM-JIM-JIM-040404-MC	7/16"-20 UNF	11	17
JBM-JIM-JIM-050505-MC	1/2"-20 UNF	14	19
JBM-JIM-JIM-060606-MC	9/16"-18 UNF	14	21
JBM-JIM-JIM-080808-MC	3/4"-16 UNF	19	25
JBM-JIM-JIM-101010-MC	7/8"-14 UNF	22	29
JBM-JIM-JIM-121212-MC	1.1/16"-12 UN	27	35

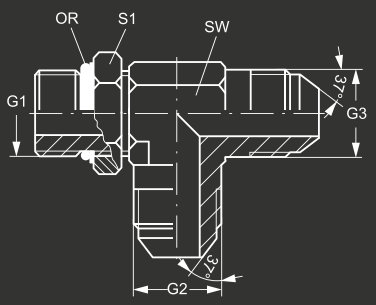
SW, S1, S2 = Width across flats

JIC Male Tee / UNO Male Positional Run

Screw-in socket, L shaped



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2+3:	UN / UNF external threads
Sealing form 2+3:	74° outer cone
Design:	Adjustable direction screw-on socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1	OR
UNP-JIM-JIM-040404-MC	7/16″-20 UNF	7/16″-20 UNF	11	14	8.92 x 1.83
UNP-JIM-JIM-050505-MC	1/2″-20 UNF	1/2″-20 UNF	14	16	10.52 x 1.83
UNP-JIM-JIM-060606-MC	9/16″-18 UNF	9/16″-18 UNF	14	17	15.40 x 2.10
UNP-JIM-JIM-080606-MC	3/4″-16 UNF	9/16″-18 UNF	19	22	16.36 x 2.20
UNP-JIM-JIM-080808-MC	3/4″-16 UNF	3/4″-16 UNF	19	22	16.36 x 2.20
UNP-JIM-JIM-101010-MC	7/8″-14 UNF	7/8″-14 UNF	22	25	19.18 x 2.46
UNP-JIM-JIM-101212-MC	7/8″-14 UNF	1.1/16″–12 UN	27	25	19.18 x 2.46
UNP-JIM-JIM-121212-MC	1.1/16″–12 UN	1.1/16″–12 UN	27	32	23.47 x 2.95
UNP-JIM-JIM-121616-MC	1.1/16″–12 UN	1.5/16″–12 UN	33	32	23.47 x 2.95
UNP-JIM-JIM-161212-MC	1.5/16″–12 UN	1.1/16″–12 UN	27	38	29.74 x 2.95
UNP-JIM-JIM-161616-MC	1.5/16″–12 UN	1.5/16″–12 UN	33	38	29.74 x 2.95
UNP-JIM-JIM-202020-MC	1.5/8″–12 UN	1.5/8″–12 UN	41	48	37.47 x 3.00
UNP-JIM-JIM-242424-MC	1.7/8″–12 UN	1.7/8″–12 UN	48	54	43.69 x 3.00

SW = Width across flats

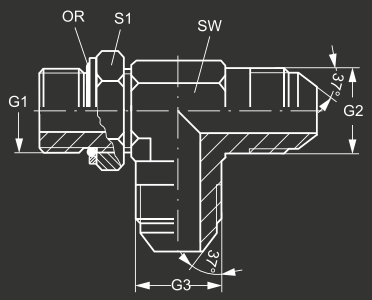
Product Version: Stainless Steel (SS)

JIC Male Tee / Metric Male Positional Run

Screw-in socket, L shaped



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2+3:	UN / UNF external threads
Sealing form 2+3:	74° outer cone
Design:	Adjustable direction screw-on socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1	OR
MMP-JIM-JIM-100404-MC	M 10 x 1	7/16"-20 UNF	11	13	8.00 x 1.50
MMP-JIM-JIM-100505-MC	M 10 x 1	1/2"-20 UNF	13	14	8.00 x 1.50
MMP-JIM-JIM-120404-MC	M 12 x 1.5	7/16"-20 UNF	17	14	9.25 x 1.78
MMP-JIM-JIM-120505-MC	M 12 x 1.5	1/2"-20 UNF	13	17	9.25 x 1.78
MMP-JIM-JIM-140505-MC	M 14 x 1.5	1/2"-20 UNF	14	17	10.82 x 1.78
MMP-JIM-JIM-140606-MC	M 14 x 1.5	9/16"-18 UNF	14	17	10.82 x 1.78
MMP-JIM-JIM-160606-MC	M 16 x 1.5	9/16"-18 UNF	19	17	13.46 x 2.08
MMP-JIM-JIM-160808-MC	M 16 x 1.5	3/4"-16 UNF	19	19	13.46 x 2.08
MMP-JIM-JIM-180606-MC	M 18 x 1.5	9/16"-18 UNF	19	17	15.54 x 2.62
MMP-JIM-JIM-180808-MC	M 18 x 1.5	3/4"-16 UNF	19	22	15.54 x 2.62
MMP-JIM-JIM-181010-MC	M 18 x 1.5	7/8"-14 UNF	22	24	15.54 x 2.62
MMP-JIM-JIM-221010-MC	M 22 x 1.5	7/8"-14 UNF	22	27	18.77 x 1.78
MMP-JIM-JIM-221212-MC	M 22 x 1.5	1.1/16"–12 UN	27	27	18.77 x 1.78
MMP-JIM-JIM-271212-MC	M 27 x 2	1.1/16"–12 UN	27	32	23.47 x 2.62
MMP-JIM-JIM-271616-MC	M 27 x 2	1.5/16"–12 UN	32	27	23.47 x 2.62
MMP-JIM-JIM-331616-MC	M 33 x 2	1.5/16"–12 UN	33	38	28.24 x 2.62
MMP-JIM-JIM-422020-MC	M 42 x 2	1.5/8"–12 UN	41	50	37.77 x 2.62
MMP-JIM-JIM-482424-MC	M 48 x 2	1.7/8"–12 UN	48	55	44.12 x 2.62

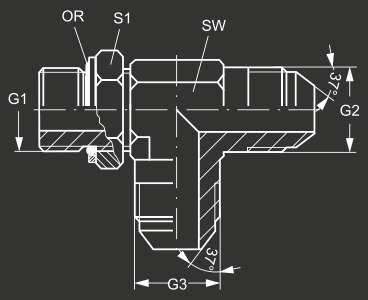
SW, S1, S2 = Width across flats

JIC Male Tee / BSPP Male Positional Run

Screw-in socket, L shaped



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2+3:	UN / UNF external threads
Sealing form 2+3:	74° outer cone
Design:	Adjustable direction screw-in socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1	OR
BPP-JIM-JIM-020404-MC	G 1/8″–28	7/16″–20 UNF	11	14	8.00 x 2.00
BPP-JIM-JIM-020505-MC	G 1/8″–28	1/2″–20 UNF	13	14	8.00 x 2.00
BPP-JIM-JIM-040404-MC	G 1/4″–19	7/16″–20 UNF	14	19	10.77 x 2.62
BPP-JIM-JIM-040505-MC	G 1/4″–19	1/2″–20 UNF	14	19	10.77 x 2.62
BPP-JIM-JIM-040606-MC	G 1/4″–19	9/16″–18 UNF	14	19	10.77 x 2.62
BPP-JIM-JIM-040808-MC	G 1/4″–19	3/4″–16 UNF	19	19	10.77 x 2.62
BPP-JIM-JIM-060404-MC	G 3/8″–19	7/16″–20 UNF	19	22	13.94 x 2.62
BPP-JIM-JIM-060505-MC	G 3/8″–19	1/2″–20 UNF	19	22	13.94 x 2.62
BPP-JIM-JIM-060606-MC	G 3/8″–19	9/16″–18 UNF	19	22	13.94 x 2.62
BPP-JIM-JIM-060808-MC	G 3/8″–19	3/4″–16 UNF	19	22	13.94 x 2.62
BPP-JIM-JIM-061010-MC	G 3/8″–19	7/8″–14 UNF	22	22	13.94 x 2.62
BPP-JIM-JIM-080606-MC	G 1/2″–14	9/16″–18 UNF	22	27	17.86 x 2.62
BPP-JIM-JIM-080808-MC	G 1/2″–14	3/4″–16 UNF	22	27	17.86 x 2.62
BPP-JIM-JIM-081010-MC	G 1/2″–14	7/8″–14 UNF	22	27	17.86 x 2.62
BPP-JIM-JIM-081212-MC	G 1/2″–14	1.1/16″–12 UN	27	27	17.86 x 2.62
BPP-JIM-JIM-120808-MC	G 3/4″–14	3/4″–16 UNF	27	36	23.47 x 2.62
BPP-JIM-JIM-121010-MC	G 3/4″–14	7/8″–14 UNF	27	36	23.47 x 2.62
BPP-JIM-JIM-121212-MC	G 3/4″–14	1.1/16″–12 UN	27	36	23.47 x 2.62
BPP-JIM-JIM-121616-MC	G 3/4″–14	1.5/16″–12 UN	33	36	23.47 x 2.62
BPP-JIM-JIM-161212-MC	G 1″–11	1.1/16″–12 UN	33	41	29.74 x 3.53
BPP-JIM-JIM-161616-MC	G 1″–11	1.5/16″–12 UN	33	41	29.74 x 3.53
BPP-JIM-JIM-162020-MC	G 1″–11	1.5/8″–12 UN	41	41	29.74 x 3.53
BPP-JIM-JIM-201616-MC	G 1.1/4″–11	1.5/16″–12 UN	41	41	37.69 x 3.53
BPP-JIM-JIM-202020-MC	G 1.1/4″–11	1.5/8″–12 UN	41	50	37.69 x 3.53
BPP-JIM-JIM-202424-MC	G 1.1/4″–11	1.7/8″–12 UN	48	50	37.69 x 3.53
BPP-JIM-JIM-242424-MC	G 1.1/2″–11	1.7/8″–12 UN	48	55	44.04 x 3.53

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

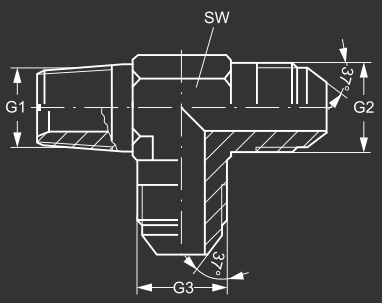
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JIC Male Tee / NPT Male Run

Screw-in socket, L shaped



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Connection 2+3:	UN / UNF external threads
Sealing form 2+3:	74° outer cone
Design:	Screw-in sockets
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



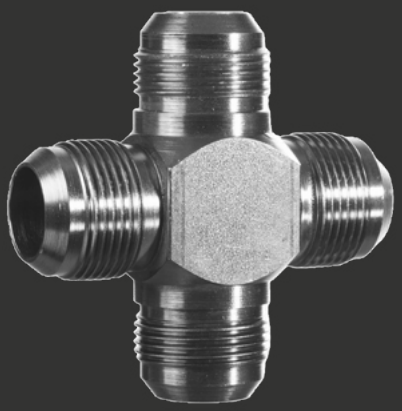
Identification	G1 NPT	G2 + G3 UNF / UN	SW mm
NTM-JIM-JIM-020404-MC	1/8"–27 NPT	7/16"–20 UNF	11
NTM-JIM-JIM-020505-MC	1/8"–27 NPT	1/2"–20 UNF	14
NTM-JIM-JIM-020606-MC	1/8"–27 NPT	9/16"–18 UNF	14
NTM-JIM-JIM-040404-MC	1/4"–18 NPT	7/16"–20 UNF	14
NTM-JIM-JIM-040505-MC	1/4"–18 NPT	1/2"–20 UNF	14
NTM-JIM-JIM-040606-MC	1/4"–18 NPT	9/16"–18 UNF	14
NTM-JIM-JIM-060606-MC	3/8"–18 NPT	9/16"–18 UNF	19
NTM-JIM-JIM-060808-MC	3/8"–18 NPT	3/4"–16 UNF	19
NTM-JIM-JIM-080808-MC	1/2"–14 NPT	3/4"–16 UNF	22
NTM-JIM-JIM-081010-MC	1/2"–14 NPT	7/8"–14 UNF	22
NTM-JIM-JIM-081212-MC	1/2"–14 NPT	1.1/16"–12 UN	27
NTM-JIM-JIM-121010-MC	3/4"–14 NPT	7/8"–14 UNF	27
NTM-JIM-JIM-121212-MC	3/4"–14 NPT	1.1/16"–12 UN	27
NTM-JIM-JIM-121414-MC	3/4"–14 NPT	1.3/16"–12 UN	33
NTM-JIM-JIM-121616-MC	3/4"–14 NPT	1.5/16"–12 UN	33
NTM-JIM-JIM-161616-MC	1"–11.5 NPT	1.5/16"–12 UN	33
NTM-JIM-JIM-202020-MC	1.1/4"–11.5 NPT	1.5/8"–12 UN	41

SW = Width across flats

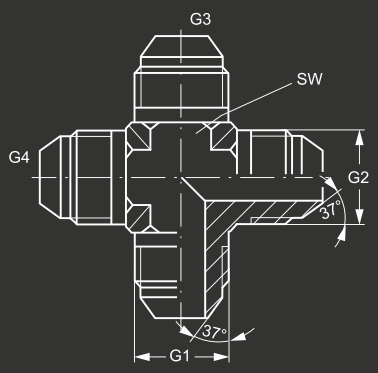
Product Version: Stainless Steel (SS)

JIC Male Cross

Fitting socket, cross shaped



Connection 1-4:	UN / UNF external threads
Sealing form 1-4:	74° outer cone
Design:	Fitting socket
Construction:	K shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 - G4	SW mm
JIM-JIM-JIM-JIM-04040404-MC	7/16"-20 UNF	11
JIM-JIM-JIM-JIM-05050505-MC	1/2"-20 UNF	14
JIM-JIM-JIM-JIM-06060606-MC	9/16"-18 UNF	14
JIM-JIM-JIM-JIM-08080808-MC	3/4"-16 UNF	19
JIM-JIM-JIM-JIM-10101010-MC	7/8"-14 UNF	22
JIM-JIM-JIM-JIM-12121212-MC	1.1/16"–12 UN	27
JIM-JIM-JIM-JIM-16161616-MC	1.5/16"–12 UN	33
JIM-JIM-JIM-JIM-20202020-MC	1.5/8"–12 UN	41
JIM-JIM-JIM-JIM-24242424-MC	1.7/8"–12 UN	48

SW = Width across flats

Product Version: Stainless Steel (SS)

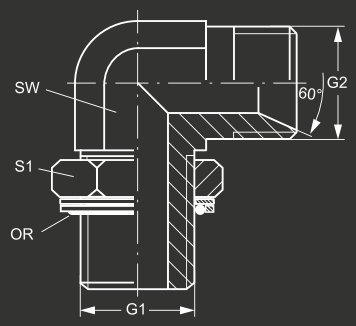
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BSPP Male / Metric Male Positional 90

Screw-in socket, angle 90°



Connection 1:	Metric External threads
Sealing form 1:	Thread seal
Connection 2+3:	BSP Nut Threads
Sealing form 2+3:	74° outer cone
Design:	Screw-in sockets
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™

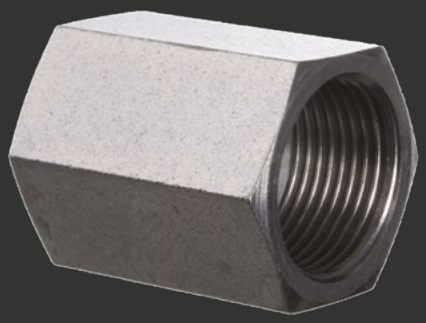


Identification	G1	G2	SW mm	S1	OR
MMP-BPM-90C-1002-MC	M 10 x 1	G 1/8"–28	11	15	8.00 x 1.50
MMP-BPM-90C-1202-MC	M 12 x 1.5	G 1/8"–28	14	18	9.30 x 2.40
MMP-BPM-90C-1204-MC	M 12 x 1.5	G 1/4"–19	14	18	9.30 x 2.40
MMP-BPM-90C-1404-MC	M 14 x 1.5	G 1/4"–19	14	20	11.30 x 2.40
MMP-BPM-90C-1406-MC	M 14 x 1.5	G 3/8"–19	14	20	11.30 x 2.40
MMP-BPM-90C-1604-MC	M 16 x 1.5	G 1/4"–19	19	20	13.30 x 2.40
MMP-BPM-90C-1606-MC	M 16 x 1.5	G 3/8"–19	19	20	13.30 x 2.40
MMP-BPM-90C-1806-MC	M 18 x 1.5	G 3/8"–19	19	25	15.30 x 2.40
MMP-BPM-90C-1808-MC	M 18 x 1.5	G 1/2"–14	19	25	15.30 x 2.40
MMP-BPM-90C-2008-MC	M 20 x 1.5	G 1/2"–14	27	28	17.30 x 2.40
MMP-BPM-90C-2208-MC	M 22 x 1.5	G 1/2"–14	27	28	19.30 x 2.40
MMP-BPM-90C-2210-MC	M 22 x 1.5	G 5/8"–14	27	28	19.30 x 2.40
MMP-BPM-90C-2212-MC	M 22 x 1.5	G 3/4"–14	27	28	19.30 x 2.40
MMP-BPM-90C-2612-MC	M 26 x 1.5	G 3/4"–14	30	33	23.50 x 2.60
MMP-BPM-90C-2712-MC	M 27 x 2	G 3/4"–14	30	33	23.47 x 2.95
MMP-BPM-90C-3316-MC	M 33 x 2	G 1"–11	36	42	29.74 x 2.95
MMP-BPM-90C-4220-MC	M 42 x 2	G 1.1/4"–11	41	50	38.00 x 3.00
MMP-BPM-90C-4824-MC	M 48 x 2	G 1.1/2"–11	50	56	44.00 x 3.00

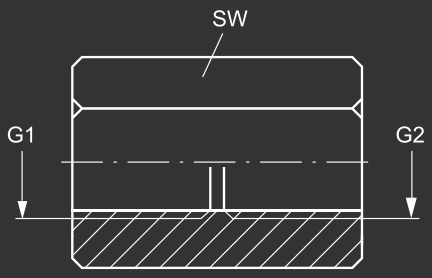
SW, S1, S2 = Width across flats

BSPP Parallel Socket

Connection sockets



Connection 1:	BSP cylindrical internal threads
Connection 2:	BSP cylindrical internal threads
Design:	Connection sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



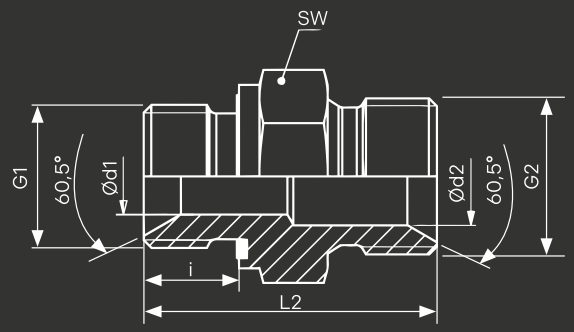
Identification	G1	G2	SW mm
BPF-BPF-0202-MC	G 1/8″–28	G 1/8″–28	14
BPF-BPF-0402-MC	G 1/4″–19	G 1/8″–28	17
BPF-BPF-0404-MC	G 1/4″–19	G 1/4″–19	17
BPF-BPF-0604-MC	G 3/8″–19	G 1/4″–19	22
BPF-BPF-0606-MC	G 3/8″–19	G 3/8″–19	22
BPF-BPF-0804-MC	G 1/2″–14	G 1/4″–19	27
BPF-BPF-0806-MC	G 1/2″–14	G 3/8″–19	27
BPF-BPF-0808-MC	G 1/2″–14	G 1/2″–14	27
BPF-BPF-1008-MC	G 5/8″–14	G 1/2″–14	32
BPF-BPF-1010-MC	G 5/8″–14	G 5/8″–14	32
BPF-BPF-1208-MC	G 3/4″–14	G 1/2″–14	32
BPF-BPF-1212-MC	G 3/4″–14	G 3/4″–14	32
BPF-BPF-1612-MC	G 1″–11	G 3/4″–14	43
BPF-BPF-1616-MC	G 1″–11	G 1″–11	43
BPF-BPF-2012-MC	G 1.1/4″–11	G 3/4″–14	50
BPF-BPF-2016-MC	G 1.1/4″–11	G 1″–11	50
BPF-BPF-2020-MC	G 1.1/4″–11	G 1.1/4″–11	50
BPF-BPF-2420-MC	G 1.1/2″–11	G 1.1/4″–11	55
BPF-BPF-2424-MC	G 1.1/2″–11	G 1.1/2″–11	55
BPF-BPF-3224-MC	G 2″–11	G 1.1/2″–11	70
BPF-BPF-3232-MC	G 2″–11	G 2″–11	70

BSPP Male / BSPP Captive Male

Screw-in sockets



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Shape E
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Note: Can be used as a screwing agent with ED and as a connector with 60° inside taper

Identification	G1	G2	L1 mm	SW mm
EDB-BPM-0202-MC	G 1/8″–28	G 1/8″–28	24.0	14
EDB-BPM-0402-MC	G 1/4″–19	G 1/8″–28	28.5	19
EDB-BPM-0404-MC	G 1/4″–19	G 1/4″–19	33.0	19
EDB-BPM-0406-MC	G 1/4″–19	G 3/8″–19	34.5	19
EDB-BPM-0604-MC	G 3/8″–19	G 1/4″–19	33.5	22
EDB-BPM-0606-MC	G 3/8″–19	G 3/8″–19	35.0	22
EDB-BPM-0608-MC	G 3/8″–19	G 1/2″–14	38.5	22
EDB-BPM-0806-MC	G 1/2″–14	G 3/8″–19	37.5	27
EDB-BPM-0808-MC	G 1/2″–14	G 1/2″–14	41.0	27
EDB-BPM-0810-MC	G 1/2″–14	G 5/8″–14	43.0	27
EDB-BPM-0812-MC	G 1/2″–14	G 3/4″–14	45.0	32
EDB-BPM-1208-MC	G 3/4″–14	G 1/2″–14	43.0	32
EDB-BPM-1212-MC	G 3/4″–14	G 3/4″–14	47.0	32
EDB-BPM-1216-MC	G 3/4″–14	G 1″–11	51.0	32
EDB-BPM-1612-MC	G 1″–11	G 3/4″–14	49.0	41
EDB-BPM-1616-MC	G 1″–11	G 1″–11	53.0	41
EDB-BPM-2016-MC	G 1.1/4″–11	G 1″–11	55.0	50
EDB-BPM-2020-MC	G 1.1/4″–11	G 1.1/4″–11	58.0	50
EDB-BPM-2424-MC	G 1.1/2″–11	G 1.1/2″–11	64.0	55

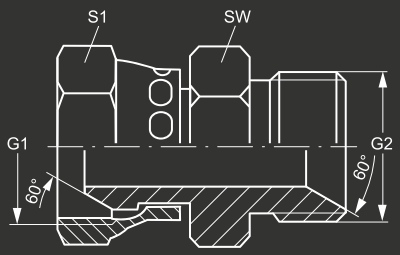
SW = Width across flats

Spare parts
WD - Soft seal for ED fittings

BSPP Swivel Female / BSPP Male
Connectors



Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1
BSF-BPM-0202-MC	G 1/8″-28	G 1/8″-28	14	14
BSF-BPM-0204-MC	G 1/8″-28	G 1/4″-19	19	19
BSF-BPM-0402-MC	G 1/4″-19	G 1/8″-28	19	19
BSF-BPM-0404-MC	G 1/4″-19	G 1/4″-19	19	19
BSF-BPM-0406-MC	G 1/4″-19	G 3/8″-19	22	19
BSF-BPM-0408-MC	G 1/4″-19	G 1/2″-14	27	19
BSF-BPM-0604-MC	G 3/8″-19	G 1/4″-19	19	22
BSF-BPM-0606-MC	G 3/8″-19	G 3/8″-19	22	22
BSF-BPM-0608-MC	G 3/8″-19	G 1/2″-14	27	22
BSF-BPM-0612-MC	G 3/8″-19	G 3/4″-14	27	27
BSF-BPM-0804-MC	G 1/2″-14	G 1/4″-19	19	27
BSF-BPM-0806-MC	G 1/2″-14	G 3/8″-19	22	27
BSF-BPM-0808-MC	G 1/2″-14	G 1/2″-14	27	27
BSF-BPM-0810-MC	G 1/2″-14	G 5/8″-14	27	32
BSF-BPM-0812-MC	G 1/2″-14	G 3/4″-14	32	27
BSF-BPM-0816-MC	G 1/2″-14	G 1″-11	27	41
BSF-BPM-1006-MC	G 5/8″-14	G 3/8″-19	32	22
BSF-BPM-1008-MC	G 5/8″-14	G 1/2″-14	32	32
BSF-BPM-1010-MC	G 5/8″-14	G 5/8″-14	32	32
BSF-BPM-1012-MC	G 5/8″-14	G 3/4″-14	32	32
BSF-BPM-1016-MC	G 5/8″-14	G 1″-11	32	41
BSF-BPM-1206-MC	G 3/4″-14	G 3/8″-19	27	32
BSF-BPM-1208-MC	G 3/4″-14	G 1/2″-14	27	32
BSF-BPM-1210-MC	G 3/4″-14	G 5/8″-14	32	32
BSF-BPM-1212-MC	G 3/4″-14	G 3/4″-14	32	32
BSF-BPM-1216-MC	G 3/4″-14	G 1″-11	41	32
BSF-BPM-1220-MC	G 3/4″-14	G 1.1/4″-11	41	46

SW = Width across flats

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BSPP Swivel Female / BSPP Male

Connectors

Identification	G1	G2	SW mm	S1
BSF-BPM-1608-MC	G 1″-11	G 1/2″-14	41	32
BSF-BPM-1610-MC	G 1″-11	G 5/8″-14	41	32
BSF-BPM-1612-MC	G 1″-11	G 3/4″-14	41	36
BSF-BPM-1616-MC	G 1″-11	G 1″-11	41	41
BSF-BPM-1620-MC	G 1″-11	G 1.1/4″-11	41	46
BSF-BPM-2012-MC	G 1.1/4″-11	G 3/4″-14	50	41
BSF-BPM-2016-MC	G 1.1/4″-11	G 1″-11	46	41
BSF-BPM-2020-MC	G 1.1/4″-11	G 1.1/4″-11	50	50
BSF-BPM-2024-MC	G 1.1/4″-11	G 1.1/2″-11	50	55
BSF-BPM-2420-MC	G 1.1/2″-11	G 1.1/4″-11	55	50
BSF-BPM-2424-MC	G 1.1/2″-11	G 1.1/2″-11	55	55
BSF-BPM-2432-MC	G 1.1/2″-11	G 2″-11	55	70
BSF-BPM-3224-MC	G 2″-11	G 1.1/2″-11	70	55
BSF-BPM-3232-MC	G 2″-11	G 2″-11	70	70

SW = Width across flats

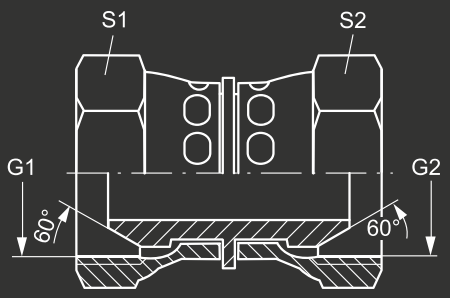
Product Version: Stainless Steel (SS)

BSPP Swivel Female / Female

Connectors



Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Connection 2:	BSP nut thread
Sealing form 2:	60° outer cone
Design:	Connectors
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	S1	S2
BSF-BSF-0202-MC	G 1/8″-28	G 1/8″-28	14	14
BSF-BSF-0402-MC	G 1/4″-19	G 1/8″-28	19	14
BSF-BSF-0404-MC	G 1/4″-19	G 1/4″-19	19	19
BSF-BSF-0604-MC	G 3/8″-19	G 1/4″-19	22	19
BSF-BSF-0606-MC	G 3/8″-19	G 3/8″-19	22	22
BSF-BSF-0804-MC	G 1/2″-14	G 1/4″-19	27	19
BSF-BSF-0806-MC	G 1/2″-14	G 3/8″-19	27	22
BSF-BSF-0808-MC	G 1/2″-14	G 1/2″-14	27	27
BSF-BSF-1006-MC	G 5/8″-14	G 3/8″-19	30	22
BSF-BSF-1008-MC	G 5/8″-14	G 1/2″-14	30	27
BSF-BSF-1010-MC	G 5/8″-14	G 5/8″-14	30	30
BSF-BSF-1206-MC	G 3/4″-14	G 3/8″-19	32	22
BSF-BSF-1208-MC	G 3/4″-14	G 1/2″-14	32	27
BSF-BSF-1210-MC	G 3/4″-14	G 5/8″-14	32	30
BSF-BSF-1212-MC	G 3/4″-14	G 3/4″-14	32	32
BSF-BSF-1606-MC	G 1"-11	G 3/8″-19	41	22
BSF-BSF-1608-MC	G 1"-11	G 1/2″-14	41	27
BSF-BSF-1612-MC	G 1"-11	G 3/4″-14	41	32
BSF-BSF-1616-MC	G 1"-11	G 1"-11	41	41
BSF-BSF-2016-MC	G 1.1/4″-11	G 1"-11	50	41
BSF-BSF-2020-MC	G 1.1/4″-11	G 1.1/4″-11	50	50
BSF-BSF-2424-MC	G 1.1/2″-11	G 1.1/2″-11	60	60
BSF-BSF-3232-MC	G 2"-11	G 2"-11	70	70

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

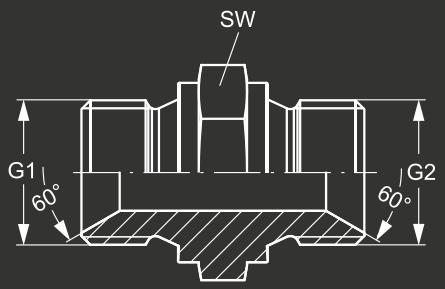
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BSPP Male / Male

Connection sockets



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Connection sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BPM-BPM-0202-MC	G 1/8"–28	G 1/8"–28	14
BPM-BPM-0204-MC	G 1/8"–28	G 1/4"–19	19
BPM-BPM-0206-MC	G 1/8"–28	G 3/8"–19	22
BPM-BPM-0208-MC	G 1/8"–28	G 1/2"–14	27
BPM-BPM-0404-MC	G 1/4"–19	G 1/4"–19	19
BPM-BPM-0406-MC	G 1/4"–19	G 3/8"–19	22
BPM-BPM-0408-MC	G 1/4"–19	G 1/2"–14	27
BPM-BPM-0410-MC	G 1/4"–19	G 5/8"–14	30
BPM-BPM-0412-MC	G 1/4"–19	G 3/4"–14	32
BPM-BPM-0416-MC	G 1/4"–19	G 1"–11	41
BPM-BPM-0420-MC	G 1/4"–19	G 1.1/4"–11	50
BPM-BPM-0606-MC	G 3/8"–19	G 3/8"–19	22
BPM-BPM-0608-MC	G 3/8"–19	G 1/2"–14	27
BPM-BPM-0610-MC	G 3/8"–19	G 5/8"–14	32
BPM-BPM-0612-MC	G 3/8"–19	G 3/4"–14	32
BPM-BPM-0616-MC	G 3/8"–19	G 1"–11	41
BPM-BPM-0620-MC	G 3/8"–19	G 1.1/4"–11	50
BPM-BPM-0808-MC	G 1/2"–14	G 1/2"–14	27
BPM-BPM-0810-MC	G 1/2"–14	G 5/8"–14	30
BPM-BPM-0812-MC	G 1/2"–14	G 3/4"–14	32
BPM-BPM-0816-MC	G 1/2"–14	G 1"–11	41
BPM-BPM-0820-MC	G 1/2"–14	G 1.1/4"–11	50
BPM-BPM-0824-MC	G 1/2"–14	G 1.1/2"–11	55
BPM-BPM-0832-MC	G 1/2"–14	G 2"–11	70

SW = Width across flats

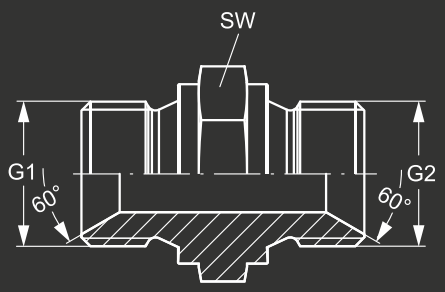
Product Version: Stainless Steel (SS)

BSPP Male / Male

Connection sockets



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Connection sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BPM-BPM-1010-MC	G 5/8″–14	G 5/8″–14	30
BPM-BPM-1012-MC	G 5/8″–14	G 3/4″–14	32
BPM-BPM-1016-MC	G 5/8″–14	G 1″–11	41
BPM-BPM-1020-MC	G 5/8″–14	G 1.1/4″–11	50
BPM-BPM-1212-MC	G 3/4″–14	G 3/4″–14	32
BPM-BPM-1216-MC	G 3/4″–14	G 1″–11	41
BPM-BPM-1220-MC	G 3/4″–14	G 1.1/4″–11	50
BPM-BPM-1224-MC	G 3/4″–14	G 1.1/2″–11	55
BPM-BPM-1232-MC	G 3/4″–14	G 2″–11	70
BPM-BPM-1616-MC	G 1″–11	G 1″–11	41
BPM-BPM-1620-MC	G 1"	G 1.1/4″–11	50
BPM-BPM-1624-MC	G 1″–11	G 1.1/2″–11	55
BPM-BPM-1632-MC	G 1″–11	G 2″–11	70
BPM-BPM-2020-MC	G 1.1/4″–11	G 1.1/4″–11	50
BPM-BPM-2024-MC	G 1.1/4″–11	G 1.1/2″–11	55
BPM-BPM-2032-MC	G 1.1/4″–11	G 2″–11	70
BPM-BPM-2424-MC	G 1.1/2″–11	G 1.1/2″–11	55
BPM-BPM-2432-MC	G 1.1/2″–11	G 2″–11	70
BPM-BPM-3232-MC	G 2″–11	G 2″–11	70
BPM-BPM-4048-MC	G 2.1/2″–11	G 3″–11	100
BPM-BPM-4848-MC	G 3″–11	G 3″–11	110

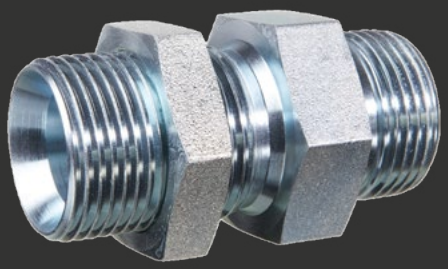
SW = Width across flats

Product Version: Stainless Steel (SS)

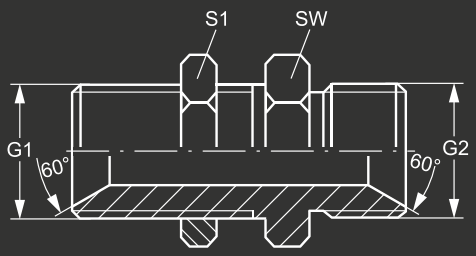
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BSPP Bulkhead

Bulkhead fitting socket



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Bulkhead fitting socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm	S1
BBM-BPM-0202-MC	G 1/8″-28	14	14
BBM-BPM-0404-MC	G 1/4″-19	19	19
BBM-BPM-0606-MC	G 3/8″-19	22	22
BBM-BPM-0808-MC	G 1/2″-14	27	27
BBM-BPM-1010-MC	G 5/8″-14	30	30
BBM-BPM-1212-MC	G 3/4″-14	32	32
BBM-BPM-1616-MC	G 1″-11	41	41
BBM-BPM-2020-MC	G 1.1/4″-11	50	50
BBM-BPM-2424-MC	G 1.1/2″-11	55	55
BBM-BPM-3232-MC	G 2″-11	70	70

SW, S1, S2 = Width across flats

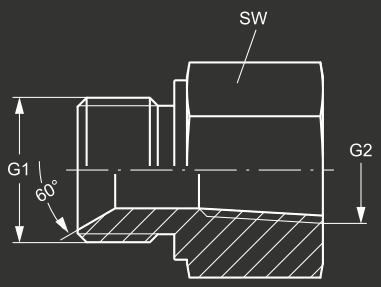
Product Version: Stainless Steel (SS)

BSPP Male / BSPT Female

Screw-on socket



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Connection 2:	BSPT cylindrical internal thread
Sealing form 2:	60° inner cone
Design:	Bulkhead fitting socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



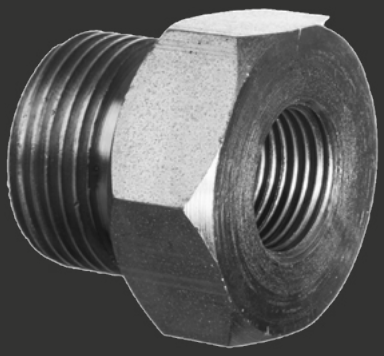
Identification	G1	G2	SW mm
BPM-BTF-0404-MC	G 1/4″–19	R 1/4″K	19
BPM-BTF-0606-MC	G 3/8″–19	R 3/8″K	22
BPM-BTF-0808-MC	G 1/2″–14	R 1/2″K	27

SW = Width across flats

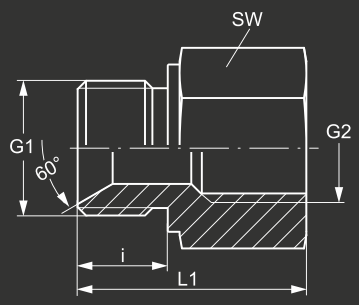
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BSPP Male / BSPP Female

Screw-on sockets



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Connection 2:	BSP cylindrical internal threads
Sealing form 2:	Flat seal
Design:	Screw-on socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



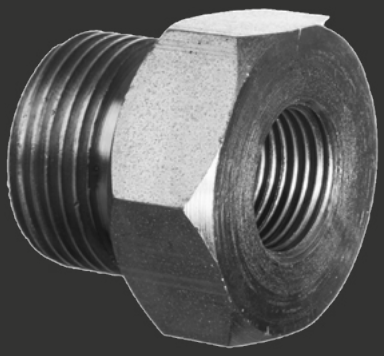
Identification	G1	G2	SW mm
BPM-BPF-0202-MC	G 1/8″-28	G 1/8″-28	17
BPM-BPF-0204-MC	G 1/8″-28	G 1/4″-19	19
BPM-BPF-0402-MC	G 1/4″-19	G 1/8″-28	19
BPM-BPF-0404-MC	G 1/4″-19	G 1/4″-19	19
BPM-BPF-0406-MC	G 1/4″-19	G 3/8″-19	24
BPM-BPF-0408-MC	G 1/4″-19	G 1/2″-14	27
BPM-BPF-0602-MC	G 3/8″-19	G 1/8″-28	24
BPM-BPF-0604-MC	G 3/8″-19	G 1/4″-19	22
BPM-BPF-0606-MC	G 3/8″-19	G 3/8″-19	24
BPM-BPF-0608-MC	G 3/8″-19	G 1/2″-14	27
BPM-BPF-0802-MC	G 1/2″-14	G 1/8″-28	27
BPM-BPF-0804-MC	G 1/2″-14	G 1/4″-19	27
BPM-BPF-0806-MC	G 1/2″-14	G 3/8″-19	27
BPM-BPF-0808-MC	G 1/2″-14	G 1/2″-14	27
BPM-BPF-0812-MC	G 1/2″-14	G 3/4″-14	36
BPM-BPF-1204-MC	G 3/4″-14	G 1/4″-19	32
BPM-BPF-1206-MC	G 3/4″-14	G 3/8″-19	32
BPM-BPF-1208-MC	G 3/4″-14	G 1/2″-14	32
BPM-BPF-1212-MC	G 3/4″-14	G 3/4″-14	36
BPM-BPF-1216-MC	G 3/4″-14	G 1″-11	41
BPM-BPF-1606-MC	G 1″-11	G 3/8″-19	41
BPM-BPF-1608-MC	G 1″-11	G 1/2″-14	41
BPM-BPF-1612-MC	G 1″-11	G 3/4″-14	41
BPM-BPF-1616-MC	G 1″-11	G 1″-11	41
BPM-BPF-1620-MC	G 1″-11	G 1.1/4″-11	50

SW = Width across flats

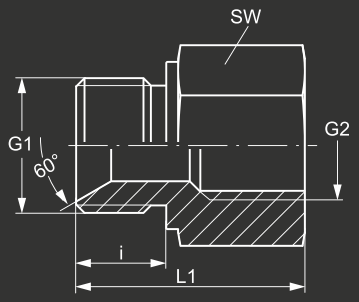
Product Version: Stainless Steel (SS)

BSPP Male / BSPP Female

Screw-on sockets



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Connection 2:	BSP cylindrical internal threads
Sealing form 2:	Flat seal
Design:	Screw-on socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BPM-BPF-2004-MC	G 1.1/4″-11	G 1/8″-28	50
BPM-BPF-2008-MC	G 1.1/4″-11	G 1/2″-14	50
BPM-BPF-2012-MC	G 1.1/4″-11	G 3/4″-14	50
BPM-BPF-2016-MC	G 1.1/4″-11	G 1″-11	41
BPM-BPF-2020-MC	G 1.1/4″-11	G 1.1/4″-11	50
BPM-BPF-2024-MC	G 1.1/4″-11	G 1.1/2″-11	55
BPM-BPF-2412-MC	G 1.1/2″-11	G 3/4″-14	55
BPM-BPF-2420-MC	G 1.1/2″-11	G 1.1/4″-11	55
BPM-BPF-2424-MC	G 1.1/2″-11	G 1.1/2″-11	55
BPM-BPF-2416-MC	G 1.1/2″-11	G 1″-11	55
BPM-BPF-2432-MC	G 1.1/2″-11	G 2″-11	70
BPM-BPF-3216-MC	G 2″-11	G 1″-11	70
BPM-BPF-3220-MC	G 2″-11	G 1.1/4″-11	70
BPM-BPF-3224-MC	G 2″-11	G 1.1/2″-11	70
BPM-BPF-3232-MC	G 2″-11	G 2″-11	70

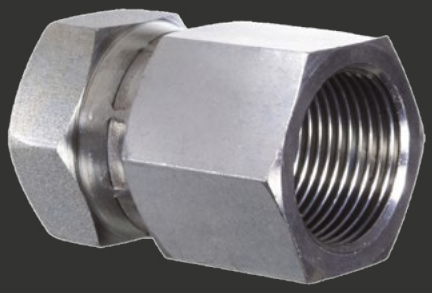
SW = Width across flats

Product Version: Stainless Steel (SS)

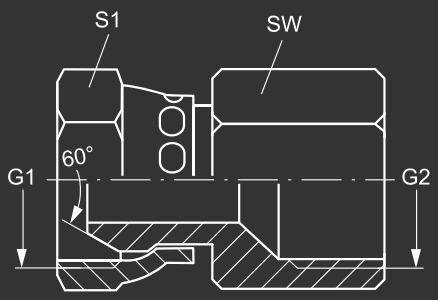
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BSPP Swivel Female / BSPP Swivel Female

Screw-on connector



Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Connection 2:	BSP cylindrical internal threads
Sealing form 2:	Flat seal
Design:	Screw-on connector
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™

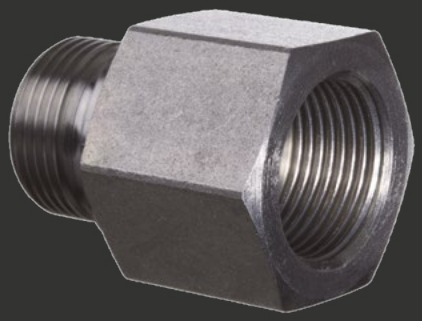


Identification	G1 + G2	SW mm	S1
BSF-BPF-0202-MC	G 1/8″–28	14	14
BSF-BPF-0404-MC	G 1/4″–19	17	19
BSF-BPF-0606-MC	G 3/8″–19	22	22
BSF-BPF-0808-MC	G 1/2″–14	27	27
BSF-BPF-1212-MC	G 3/4″–14	32	32
BSF-BPF-1616-MC	G 1″–11	43	41
BSF-BPF-2020-MC	G 1.1/4″–11	50	50
BSF-BPF-2424-MC	G 1.1/2″–11	60	60

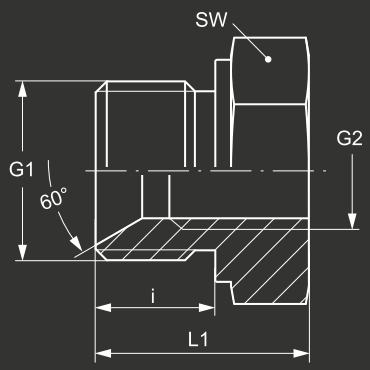
SW, S1, S2 = Width across flats

BSPP Male / Female Long

Screw-on socket



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° outer cone
Connection 2:	BSP cylindrical internal threads
Sealing form 2:	Flat seal
Design:	Screw-on socket, long
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



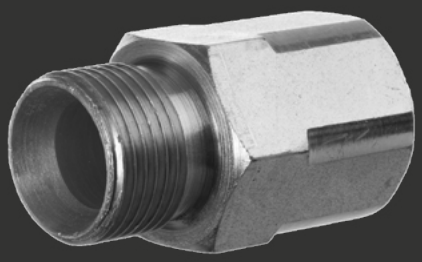
Identification	G1	G2	l mm	L1 mm	SW mm
BPM-BPF/L-0604-MC	G 3/8″–19	G 1/4″–19	12.0	30.5	22
BPM-BPF/L-0806-MC	G 1/2″–14	G 3/8″–19	16.0	38.0	30
BPM-BPF/L-1608-MC	G 1″–11	G 1/2″–14	19.0	50.0	41
BPM-BPF/L-1612-MC	G 1″–11	G 3/4″–14	20.5	47.5	41
BPM-BPF/L-2016-MC	G 1.1/4″–11	G 1″–11	20.0	48.0	50
BPM-BPF/L-2420-MC	G 1.1/2″–11	G 1.1/4″–11	22.0	54.5	55

SW = Width across flats

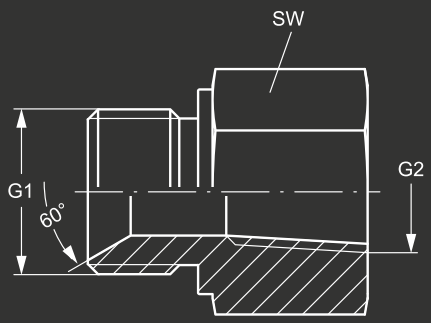
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BSPP Male / NPT Female

Screw-on socket



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° outer cone
Connection 2:	NPT internal thread
Sealing form 2:	Thread seal
Design:	Screw-on socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BPM-NTF-0202-MC	G 1/8″-28	1/8″-27 NPT	14
BPM-NTF-0204-MC	G 1/8″-28	1/4″-18 NPT	19
BPM-NTF-0404-MC	G 1/4″-19	1/4″-18 NPT	19
BPM-NTF-0406-MC	G 1/4″-19	3/8″-18 NPT	24
BPM-NTF-0604-MC	G 3/8″-19	1/4″-18 NPT	22
BPM-NTF-0606-MC	G 3/8″-19	3/8″-18 NPT	24
BPM-NTF-0808-MC	G 1/2″-14	1/2″-14 NPT	27
BPM-NTF-1212-MC	G 3/4″-14	3/4″-14 NPT	36
BPM-NTF-1616-MC	G 1″-11	1″-11.5 NPT	41
BPM-NTF-2020-MC	G 1.1/4″-11	1.1/4″-11.5 NPT	50
BPM-NTF-2424-MC	G 1.1/2″-11	1.1/2″-11.5 NPT	55

SW = Width across flats

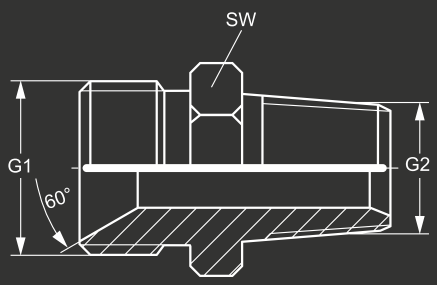
Product Version: Stainless Steel (SS)

BSPP Male / NPT Male

Screw-in sockets



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° outer cone
Connection 2:	NPT external threads
Sealing form 2:	Thread seal
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BPM-NTM-0202-MC	G 1/8"–28	1/8"–27 NPT	11
BPM-NTM-0204-MC	G 1/8"–28	1/4"–18 NPT	17
BPM-NTM-0402-MC	G 1/4"–19	1/8"–27 NPT	17
BPM-NTM-0404-MC	G 1/4"–19	1/4"–18 NPT	17
BPM-NTM-0406-MC	G 1/4"–19	3/8"–18 NPT	17
BPM-NTM-0408-MC	G 1/4"–19	1/2"–14 NPT	22
BPM-NTM-0412-MC	G 1/4"–19	3/4"–14 NPT	27
BPM-NTM-0602-MC	G 3/8"–19	1/8"–27 NPT	17
BPM-NTM-0604-MC	G 3/8"–19	1/4"–18 NPT	17
BPM-NTM-0606-MC	G 3/8"–19	3/8"–18 NPT	17
BPM-NTM-0608-MC	G 3/8"–19	1/2"–14 NPT	22
BPM-NTM-0612-MC	G 3/8"–19	3/4"–14 NPT	27
BPM-NTM-0616-MC	G 3/8"–19	1"–11.5 NPT	36
BPM-NTM-0804-MC	G 1/2"–14	1/4"–18 NPT	22
BPM-NTM-0806-MC	G 1/2"–14	3/8"–18 NPT	22
BPM-NTM-0808-MC	G 1/2"–14	1/2"–14 NPT	22
BPM-NTM-0812-MC	G 1/2"–14	3/4"–14 NPT	27
BPM-NTM-0816-MC	G 1/2"–14	1"–11.5 NPT	36
BPM-NTM-1008-MC	G 5/8"–14	1/2"–14 NPT	27
BPM-NTM-1012-MC	G 5/8"–14	3/4"–14 NPT	27
BPM-NTM-1204-MC	G 3/4"–14	1/4"–18 NPT	27
BPM-NTM-1206-MC	G 3/4"–14	3/8"–18 NPT	27
BPM-NTM-1208-MC	G 3/4"–14	1/2"–14 NPT	27
BPM-NTM-1212-MC	G 3/4"–14	3/4"–14 NPT	27
BPM-NTM-1216-MC	G 3/4"–14	1"–11.5 NPT	36
BPM-NTM-1220-MC	G 3/4"–14	1.1/4"–11.5 NPT	46

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BSPP Male / NPT Male

Screw-in sockets

Identification	G1	G2	SW mm
BPM-NTM-1608-MC	G 1″–11	1/2″–14 NPT	36
BPM-NTM-1612-MC	G 1″–11	3/4″–14 NPT	36
BPM-NTM-1616-MC	G 1″–11	1″–11.5 NPT	36
BPM-NTM-1620-MC	G 1″–11	1.1/4″–11.5 NPT	46
BPM-NTM-1624-MC	G 1″–11	1.1/2″–11.5 NPT	50
BPM-NTM-1632-MC	G 1″–11	2″–11.5 NPT	65
BPM-NTM-2012-MC	G 1.1/4″–11	3/4″–14 NPT	46
BPM-NTM-2016-MC	G 1.1/4″–11	1″–11.5 NPT	46
BPM-NTM-2020-MC	G 1.1/4″–11	1.1/4″–11.5 NPT	46
BPM-NTM-2024-MC	G 1.1/4″–11	1.1/2″–11.5 NPT	50
BPM-NTM-2416-MC	G 1.1/2″–11	1″–11.5 NPT	50
BPM-NTM-2420-MC	G 1.1/2″–11	1.1/4″–11.5 NPT	50
BPM-NTM-2424-MC	G 1.1/2″–11	1.1/2″–11.5 NPT	50
BPM-NTM-2432-MC	G 1.1/2″–11	2″–11.5 NPT	65
BPM-NTM-3220-MC	G 2″–11	1.1/4″–11.5 NPT	65
BPM-NTM-3224-MC	G 2″–11	1.1/2″–11.5 NPT	65
BPM-NTM-3232-MC	G 2″–11	2″–11.5 NPT	65

SW = Width across flats

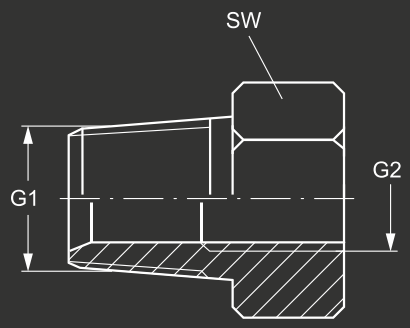
Product Version: Stainless Steel (SS)

BSPT Male / BSPP Fixed Female

Screw-in sockets



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	BSP cylindrical internal threads
Sealing form 2:	Flat seal
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BTM-BPF-0204-MC	R 1/8″K	G 1/4″–19	19
BTM-BPF-0206-MC	R 1/8″K	G 3/8″–19	22
BTM-BPF-0208-MC	R 1/8″K	G 1/2″–14	27
BTM-BPF-0402-MC	R 1/4″K	G 1/8″–28	14
BTM-BPF-0404-MC	R 1/4″K	G 1/4″–19	19
BTM-BPF-0406-MC	R 1/4″K	G 3/8″–19	22
BTM-BPF-0408-MC	R 1/4″K	G 1/2″–14	27
BTM-BPF-0602-MC	R 3/8″K	G 1/8″–28	19
BTM-BPF-0604-MC	R 3/8″K	G 1/4″–19	19
BTM-BPF-0606-MC	R 3/8″K	G 3/8″–19	22
BTM-BPF-0608-MC	R 3/8″K	G 1/2″–14	27
BTM-BPF-0804-MC	R 1/2″K	G 1/4″–19	22
BTM-BPF-0806-MC	R 1/2″K	G 3/8″–19	22
BTM-BPF-0808-MC	R 1/2″K	G 1/2″–14	27
BTM-BPF-0812-MC	R 1/2″K	G 3/4″–14	36
BTM-BPF-0816-MC	R 1/2″K	G 1″–11	41
BTM-BPF-1204-MC	R 3/4″K	G 1/4″–19	27
BTM-BPF-1206-MC	R 3/4″K	G 3/8″–19	27
BTM-BPF-1208-MC	R 3/4″K	G 1/2″–14	27
BTM-BPF-1212-MC	R 3/4″K	G 3/4″–14	32
BTM-BPF-1216-MC	R 3/4″K	G 1″–11	41

SW = Width across flats

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BSPT Male / BSPP Fixed Female

Screw-in sockets

Identification	G1	G2	SW mm
BTM-BPF-1608-MC	R 1″K	G 1/2″–14	36
BTM-BPF-1612-MC	R 1″K	G 3/4″–14	36
BTM-BPF-1616-MC	R 1″K	G 1″–11	41
BTM-BPF-1620-MC	R 1″K	G 1.1/4″–11	50
BTM-BPF-2008-MC	R 1.1/4″K	G 1/2″–14	50
BTM-BPF-2012-MC	R 1.1/4″K	G 3/4″–14	50
BTM-BPF-2016-MC	R 1.1/4″K	G 1″–11	50
BTM-BPF-2024-MC	R 1.1/4″K	G 1.1/2″–11	55
BTM-BPF-2416-MC	R 1.1/2″K	G 1″–11	55
BTM-BPF-2420-MC	R 1.1/2″K	G 1.1/4″–11	55
BTM-BPF-2432-MC	R 1.1/2″K	G 2″–11	70
BTM-BPF-3220-MC	R 2″K	G 1.1/4″–11	70
BTM-BPF-3224-MC	R 2″K	G 1.1/2″–11	70

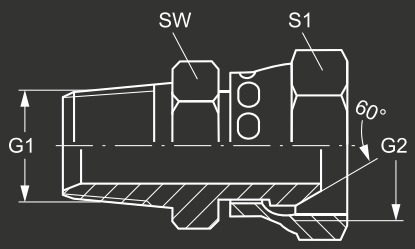
SW = Width across flats

BSPP Swivel Female / BSPT Male

Screw-in sockets



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	BSP nut thread
Sealing form 2:	60° inner cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1
BTM-BSF-0202-MC	R 1/8″K	G 1/8″–28	14	14
BTM-BSF-0404-MC	R 1/4″K	G 1/4″–19	19	19
BTM-BSF-0606-MC	R 3/8″K	G 3/8″–19	22	22
BTM-BSF-0608-MC	R 3/8″K	G 1/2″–14	22	27
BTM-BSF-0806-MC	R 1/2″K	G 3/8″–19	27	22
BTM-BSF-0808-MC	R 1/2″K	G 1/2″–14	27	27
BTM-BSF-1010-MC	R 5/8″K	G 5/8″–14	30	30
BTM-BSF-1208-MC	R 3/4″K	G 1/2″–14	37	27
BTM-BSF-1212-MC	R 3/4″K	G 3/4″–14	37	37
BTM-BSF-1612-MC	R 1″K	G 3/4″–14	41	37
BTM-BSF-1616-MC	R 1″K	G 1″–11	41	41
BTM-BSF-2020-MC	R 1.1/4″K	G 1.1/4″–11	50	50
BTM-BSF-2424-MC	R 1.1/2″K	G 1.1/2″–11	55	60
BTM-BSF-3232-MC	R 2″K	G 2″–11	64	67

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

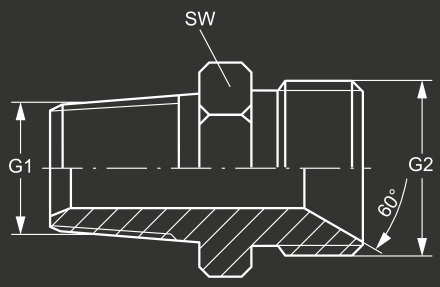
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BSPP Male / BSPT Male

Screw-in sockets



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	BSP nut thread
Sealing form 2:	60° inner cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BTM-BPM-0202-MC	R 1/8″K	G 1/8″–28	14
BTM-BPM-0204-MC	R 1/8″K	G 1/4″–19	14
BTM-BPM-0206-MC	R 1/8″K	G 3/8″–19	19
BTM-BPM-0402-MC	R 1/4″K	G 1/8″–28	14
BTM-BPM-0404-MC	R 1/4″K	G 1/4″–19	19
BTM-BPM-0406-MC	R 1/4″K	G 3/8″–19	22
BTM-BPM-0408-MC	R 1/4″K	G 1/2″–14	27
BTM-BPM-0412-MC	R 1/4″K	G 3/4″–14	32
BTM-BPM-0602-MC	R 3/8″K	G 1/8″–28	19
BTM-BPM-0604-MC	R 3/8″K	G 1/4″–19	19
BTM-BPM-0606-MC	R 3/8″K	G 3/8″–19	22
BTM-BPM-0608-MC	R 3/8″K	G 1/2″–14	27
BTM-BPM-0610-MC	R 3/8″K	G 5/8″–14	30
BTM-BPM-0612-MC	R 3/8″K	G 3/4″–14	32
BTM-BPM-0804-MC	R 1/2″K	G 1/4″–19	22
BTM-BPM-0806-MC	R 1/2″K	G 3/8″–19	22
BTM-BPM-0808-MC	R 1/2″K	G 1/2″–14	27
BTM-BPM-0810-MC	R 1/2″K	G 5/8″–14	30
BTM-BPM-0812-MC	R 1/2″K	G 3/4″–14	32
BTM-BPM-0816-MC	R 1/2″K	G 1″–11	41
BTM-BPM-1008-MC	R 5/8″K	G 1/2″–14	30
BTM-BPM-1010-MC	R 5/8″K	G 5/8″–14	30
BTM-BPM-1012-MC	R 5/8″K	G 3/4″–14	32
BTM-BPM-1204-MC	R 3/4″K	G 1/4″–19	30
BTM-BPM-1206-MC	R 3/4″K	G 3/8″–19	30
BTM-BPM-1208-MC	R 3/4″K	G 1/2″–14	30
BTM-BPM-1210-MC	R 3/4″K	G 5/8″–14	30
BTM-BPM-1212-MC	R 3/4″K	G 3/4″–14	32

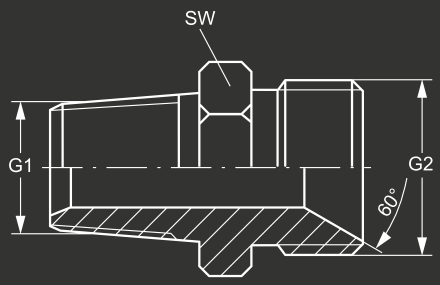
SW = Width across flats
Product Version: Stainless Steel (SS)

BSPP Male / BSPT Male

Screw-in sockets



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	BSP nut thread
Sealing form 2:	60° inner cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BTM-BPM-1216-MC	R 3/4″K	G 1″–11	41
BTM-BPM-1220-MC	R 3/4″K	G 1.1/4″–11	50
BTM-BPM-1606-MC	R 1″K	G 3/8″–19	36
BTM-BPM-1608-MC	R 1″K	G 1/2″–14	36
BTM-BPM-1612-MC	R 1″K	G 3/4″–14	36
BTM-BPM-1616-MC	R 1″K	G 1″–11	36
BTM-BPM-1620-MC	R 1″K	G 1.1/4″–11	50
BTM-BPM-1624-MC	R 1″K	G 1.1/2″–11	55
BTM-BPM-2012-MC	R 1.1/4″K	G 3/4″–14	50
BTM-BPM-2016-MC	R 1.1/4″K	G 1″–11	50
BTM-BPM-2020-MC	R 1.1/4″K	G 1.1/4″–11	50
BTM-BPM-2024-MC	R 1.1/4″K	G 1.1/2″–11	55
BTM-BPM-2032-MC	R 1.1/4″K	G 2″–11	60
BTM-BPM-2416-MC	R 1.1/2″K	G 1″–11	55
BTM-BPM-2420-MC	R 1.1/2″K	G 1.1/4″–11	55
BTM-BPM-2424-MC	R 1.1/2″K	G 1.1/2″–11	55
BTM-BPM-2432-MC	R 1.1/2″K	G 2″–11	60
BTM-BPM-3216-MC	R 2″K	G 1″–11	65
BTM-BPM-3220-MC	R 2″K	G 1.1/4″–11	65
BTM-BPM-3224-MC	R 2″K	G 1.1/2″–11	65
BTM-BPM-3232-MC	R 2″K	G 2″–11	65
BTM-BPM-4040-MC	R 2.1/2″K	G 2.1/2″–11	70

SW = Width across flats

Product Version: Stainless Steel (SS)

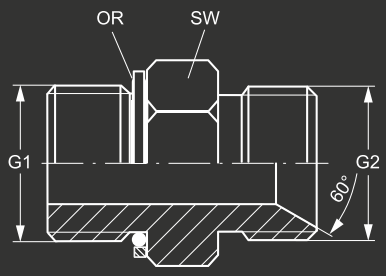
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BSPP Male / Metric Stud Male

Screw-in sockets



Connection 1:	Metric Stud Male
Sealing form 1:	Thread seal
Connection 2:	BSP nut thread
Sealing form 2:	60° inner cone
Design:	Screw-in sockets
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	OR
MSM-BPM-1002-MC	M 10 x 1	G 1/8"–28	14	8.1 x 1.6
MSM-BPM-1202-MC	M 12 x 1.5	G 1/8"–28	17	9.3 x 2.2
MSM-BPM-1204-MC	M 12 x 1.5	G 1/4"–19	19	9.3 x 2.2
MSM-BPM-1404-MC	M 14 x 1.5	G 1/4"–19	19	11.3 x 2.2
MSM-BPM-1406-MC	M 14 x 1.5	G 3/8"–19	22	11.3 x 2.2
MSM-BPM-1604-MC	M 16 x 1.5	G 1/4"–19	22	13.3 x 2.2
MSM-BPM-1606-MC	M 16 x 1.5	G 3/8"–19	22	13.3 x 2.2
MSM-BPM-1806-MC	M 18 x 1.5	G 3/8"–19	24	15.3 x 2.2
MSM-BPM-1808-MC	M 18 x 1.5	G 1/2"–14	24	15.3 x 2.2
MSM-BPM-2008-MC	M 20 x 1.5	G 1/2"–14	27	17.3 x 2.2
MSM-BPM-2208-MC	M 22 x 1.5	G 1/2"–14	27	19.3 x 2.2
MSM-BPM-2210-MC	M 22 x 1.5	G 5/8"–14	27	19.3 x 2.2
MSM-BPM-2212-MC	M 22 x 1.5	G 3/4"–14	32	19.3 x 2.2
MSM-BPM-2612-MC	M 26 x 1.5	G 3/4"–14	32	23.6 x 2.9
MSM-BPM-2712-MC	M 27 x 2	G 3/4"–14	32	23.6 x 2.9
MSM-BPM-2716-MC	M 27 x 2	G 1"–11	41	23.6 x 2.9
MSM-BPM-3316-MC	M 33 x 2	G 1"–11	41	29.6 x 2.9
MSM-BPM-4220-MC	M 42 x 2	G 1.1/4"–11	50	38.6 x 2.9
MSM-BPM-4824-MC	M 48 x 2	G 1.1/2"–11	55	44.6 x 2.9

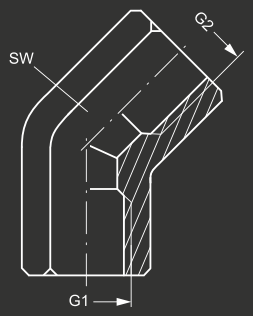
SW = Width across flats

BSPP Socket 45

Connection socket, angle 45°



Connection 1:	BSP cylindrical internal threads
Sealing form 1:	Flat sealing
Connection 2:	BSP cylindrical internal threads
Sealing form 2:	Flat seal
Design:	Connection sockets
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm
BPF-BPF-45C-0202-MC	G 1/8″-28	17
BPF-BPF-45C-0404-MC	G 1/4″-19	19
BPF-BPF-45C-0606-MC	G 3/8″-19	22
BPF-BPF-45C-0808-MC	G 1/2″-14	27
BPF-BPF-45C-1212-MC	G 3/4″-14	33
BPF-BPF-45C-1616-MC	G 1″-11	41

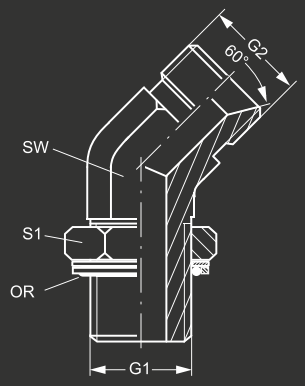
SW = Width across flats

BSPP Male / BSPP male Positional 45

Screw-in socket, angle 45°



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Adjustable direction screw-in socket
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR
BPP-BPM-45C-0202-MC	G 1/8″–28	G 1/8″–28	11	16	7.65 x 1.78
BPP-BPM-45C-0402-MC	G 1/4″–19	G 1/8″–28	14	20	10.78 x 2.62
BPP-BPM-45C-0404-MC	G 1/4″–19	G 1/4″–19	14	20	10.78 x 2.62
BPP-BPM-45C-0406-MC	G 1/4″–19	G 3/8″–19	14	16	10.78 x 2.62
BPP-BPM-45C-0604-MC	G 3/8″–19	G 1/4″–19	14	24	13.94 x 2.62
BPP-BPM-45C-0606-MC	G 3/8″–19	G 3/8″–19	22	24	13.94 x 2.62
BPP-BPM-45C-0608-MC	G 3/8″–19	G 1/2″–14	22	24	13.94 x 2.62
BPP-BPM-45C-0806-MC	G 1/2″–14	G 3/8″–19	22	28	17.86 x 2.62
BPP-BPM-45C-0808-MC	G 1/2″–14	G 1/2″–14	22	28	17.86 x 2.62
BPP-BPM-45C-0810-MC	G 1/2″–14	G 5/8″–14	22	28	17.86 x 2.62
BPP-BPM-45C-0812-MC	G 1/2″–14	G 3/4″–14	27	28	17.86 x 2.62
BPP-BPM-45C-1206-MC	G 3/4″–14	G 3/8″–19	27	35	23.47 x 2.62
BPP-BPM-45C-1212-MC	G 3/4″–14	G 3/4″–14	27	35	23.47 x 2.62
BPP-BPM-45C-1216-MC	G 3/4″–14	G 1″–11	33	35	23.47 x 2.62
BPP-BPM-45C-1612-MC	G 1″–11	G 3/4″–14	33	43	29.74 x 3.53
BPP-BPM-45C-1616-MC	G 1″–11	G 1″–11	33	43	29.74 x 3.53
BPP-BPM-45C-2016-MC	G 1.1/4″–11	G 1″–11	41	52	37.69 x 3.53
BPP-BPM-45C-2020-MC	G 1.1/4″–11	G 1.1/4″–11	41	52	37.69 x 3.53
BPP-BPM-45C-2424-MC	G 1.1/2″–11	G 1.1/2″–11	48	58	44.04 x 3.53

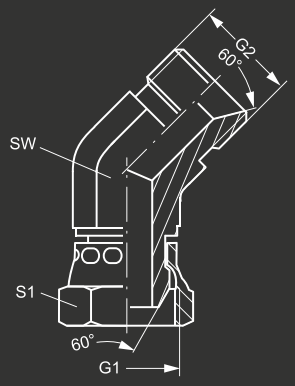
SW = Width across flats

BSPP Male / Swivel Female 45

Connector, angle 45°



Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Connectors
Construction:	Angle 45°
Material:	Steel
Surface:	Electro galvanised



Identification	G1 + G2	SW mm	S1
BSF-BPM-45C-0404-MC	G 1/4"–19	14	19
BSF-BPM-45C-0606-MC	G 3/8"–19	17	22
BSF-BPM-45C-0808-MC	G 1/2"–14	22	27
BSF-BPM-45C-1212-MC	G 3/4"–14	27	32
BSF-BPM-45C-1616-MC	G 1"–11	36	41
BSF-BPM-45C-2020-MC	G 1.1/4"–11	46	50
BSF-BPM-45C-2424-MC	G 1.1/2"–11	50	55
BSF-BPM-45C-3232-MC	G 2"–11	60	70

SW, S1, S2 = Width across flats

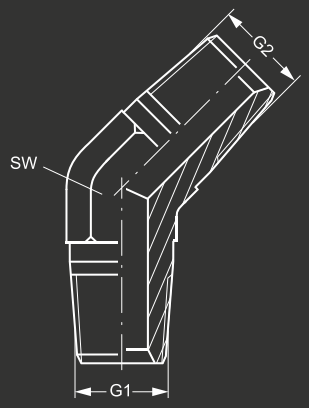
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BSPT Male / Male 45

Screw-in socket, angle 45°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	BSPT conical external threads
Sealing form 2:	Thread seal
Design:	Screw-in sockets
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm
BTM-BTM-45C-0404-MC	R 1/4"K	14
BTM-BTM-45C-0606-MC	R 3/8"K	19
BTM-BTM-45C-0808-MC	R 1/2"K	22
BTM-BTM-45C-1212-MC	R 3/4"K	27
BTM-BTM-45C-1616-MC	R 1"K	33

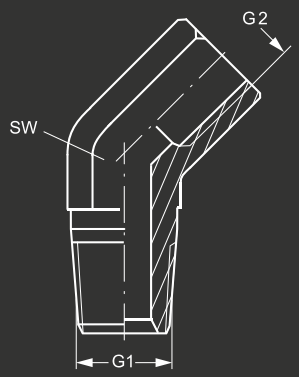
SW = Width across flats

BSPT Male / BSPP Female 45

Screw-in socket, angle 45°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	BSP cylindrical internal threads
Sealing form 2:	Flat seal
Design:	Screw-in sockets
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BTM-BPF-45C-0202-MC	R 1/8″K	G 1/8″–28	14
BTM-BPF-45C-0404-MC	R 1/4″K	G 1/4″–19	19
BTM-BPF-45C-0606-MC	R 3/8″K	G 3/8″–19	22
BTM-BPF-45C-0808-MC	R 1/2″K	G 1/2″–14	27
BTM-BPF-45C-1212-MC	R 3/4″K	G 3/4″–14	32
BTM-BPF-45C-1616-MC	R 1″K	G 1″–11	41

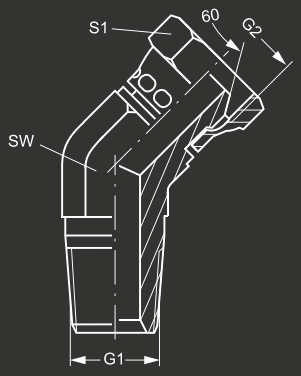
SW = Width across flats

BSPT Male / BSPP Swivel Female 45

Screw-in socket, angle 45°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	BSP nut thread
Sealing form 2:	60° inner cone
Design:	Screw-in sockets
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1
BTM-BSF-45C-0404-MC	R 1/4"K	G 1/4"-19	19	19
BTM-BSF-45C-0606-MC	R 3/8"K	G 3/8"-19	22	22
BTM-BSF-45C-0808-MC	R 1/2"K	G 1/2"-14	27	27
BTM-BSF-45C-1212-MC	R 3/4"K	G 3/4"-14	32	32
BTM-BSF-45C-1616-MC	R 1"K	G 1"-11	41	41
BTM-BSF-45C-2020-MC	R 1.1/4"K	G 1.1/4"-11	50	50

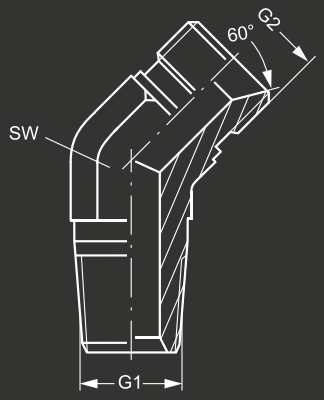
SW = Width across flats

BSPT Male / BSPP Male 45

Screw-in socket, angle 45°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	BSP cylindrical internal threads
Sealing form 2:	Flat seal
Design:	Screw-in sockets
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BTM-BPM-45C-0404-MC	R 1/4"K	G 1/4"–19	14
BTM-BPM-45C-0406-MC	R 1/4"K	G 3/8"–19	19
BTM-BPM-45C-0604-MC	R 3/8"K	G 1/4"–19	19
BTM-BPM-45C-0606-MC	R 3/8"K	G 3/8"–19	19
BTM-BPM-45C-0608-MC	R 3/8"K	G 1/2"–14	22
BTM-BPM-45C-0806-MC	R 1/2"K	G 3/8"–19	22
BTM-BPM-45C-0808-MC	R 1/2"K	G 1/2"–14	22
BTM-BPM-45C-0812-MC	R 1/2"K	G 3/4"–14	27
BTM-BPM-45C-1208-MC	R 3/4"K	G 1/2"–14	27
BTM-BPM-45C-1212-MC	R 3/4"K	G 3/4"–14	27
BTM-BPM-45C-1216-MC	R 3/4"K	G 1"–11	33
BTM-BPM-45C-1612-MC	R 1"K	G 3/4"–14	33
BTM-BPM-45C-1616-MC	R 1"K	G 1"–11	33
BTM-BPM-45C-1620-MC	R 1"K	G 1.1/4"–11	41
BTM-BPM-45C-2016-MC	R 1.1/4"K	G 1"–11	41
BTM-BPM-45C-2020-MC	R 1.1/4"K	G 1.1/4"–11	41
BTM-BPM-45C-2024-MC	R 1.1/4"K	G 1.1/2"–11	48
BTM-BPM-45C-2420-MC	R 1.1/2"K	G 1.1/4"–11	48
BTM-BPM-45C-2424-MC	R 1.1/2"K	G 1.1/2"–11	48
BTM-BPM-45C-3224-MC	R 2"K	G 1.1/2"–11	64
BTM-BPM-45C-3232-MC	R 2"K	G 2"–11	64

SW = Width across flats

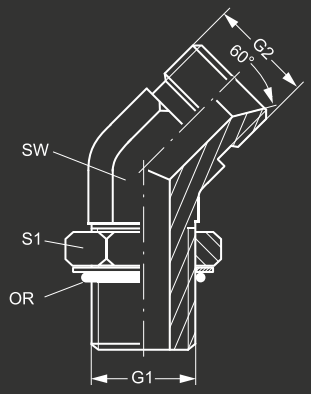
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BSPP Male / UNO Male Positional 45

Screw-in socket, angle 45°



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Screw-in sockets
Construction:	Angle 45°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR
UNP-BPM-45C-0402-MC	7/16"-20 UNF	G 1/8"-28	11	14	8.92 x 1.83
UNP-BPM-45C-0404-MC	7/16"-20 UNF	G 1/4"-19	11	14	8.92 x 1.83
UNP-BPM-45C-0406-MC	7/16"-20 UNF	G 3/8"-19	14	14	8.92 x 1.83
UNP-BPM-45C-0502-MC	1/2"-20 UNF	G 1/8"-28	13	16	10.52 x 1.83
UNP-BPM-45C-0504-MC	1/2"-20 UNF	G 1/4"-19	13	16	10.52 x 1.83
UNP-BPM-45C-0604-MC	9/16"-18 UNF	G 1/4"-19	14	17	11.90 x 1.98
UNP-BPM-45C-0606-MC	9/16"-18 UNF	G 3/8"-19	14	17	11.90 x 1.98
UNP-BPM-45C-0804-MC	3/4"-16 UNF	G 1/4"-19	19	22	16.36 x 2.20
UNP-BPM-45C-0806-MC	3/4"-16 UNF	G 3/8"-19	19	22	16.36 x 2.20
UNP-BPM-45C-0808-MC	3/4"-16 UNF	G 1/2"-14	19	22	16.36 x 2.20
UNP-BPM-45C-0812-MC	3/4"-16 UNF	G 3/4"-14	27	22	16.36 x 2.20
UNP-BPM-45C-1006-MC	7/8"-14 UNF	G 3/8"-19	22	25	19.18 x 2.46
UNP-BPM-45C-1008-MC	7/8"-14 UNF	G 1/2"-14	22	25	19.18 x 2.46
UNP-BPM-45C-1012-MC	7/8"-14 UNF	G 3/4"-14	27	25	19.18 x 2.46
UNP-BPM-45C-1208-MC	1.1/16"-12 UN	G 1/2"-14	27	32	23.47 x 2.95
UNP-BPM-45C-1212-MC	1.1/16"-12 UN	G 3/4"-14	27	32	23.47 x 2.95
UNP-BPM-45C-1216-MC	1.1/16"-12 UN	G 1"-11	33	32	23.47 x 2.95
UNP-BPM-45C-1612-MC	1.5/16"-12 UN	G 3/4"-14	33	38	29.74 x 2.95
UNP-BPM-45C-1616-MC	1.5/16"-12 UN	G 1"-11	33	38	29.74 x 2.95

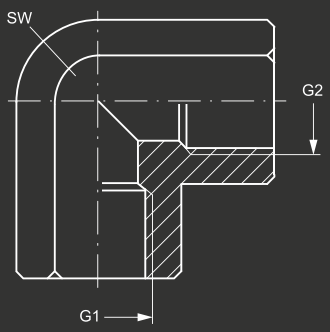
SW, S1, S2 = Width across flats

BSPP Socket 90

Connection socket, IGR, angle 90°



Connection 1:	BSP cylindrical internal threads
Sealing form 1:	Flat sealing
Connection 2:	BSP cylindrical internal threads
Sealing form 2:	Flat seal
Design:	Connection sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm
BPF-BPF-90C-0202-MC	G 1/8″-28	17
BPF-BPF-90C-0404-MC	G 1/4″-19	19
BPF-BPF-90C-0606-MC	G 3/8″-19	22
BPF-BPF-90C-0808-MC	G 1/2″-14	27
BPF-BPF-90C-1212-MC	G 3/4″-14	33
BPF-BPF-90C-1616-MC	G 1″-11	41
BPF-BPF-90C-2020-MC	G 1.1/4″-11	48
BPF-BPF-90C-2424-MC	G 1.1/2″-11	64
BPF-BPF-90C-3232-MC	G 2″-11	73

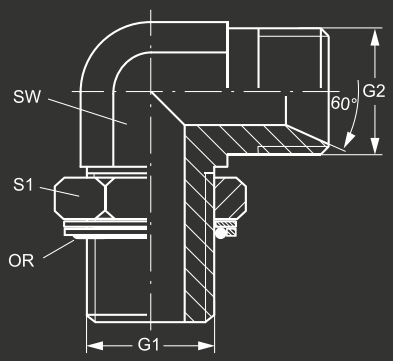
SW = Width across flats

BSPP Male / BSPP Male Positional 90

Screw-in socket, angle 90°



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Adjustable direction screw-in socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



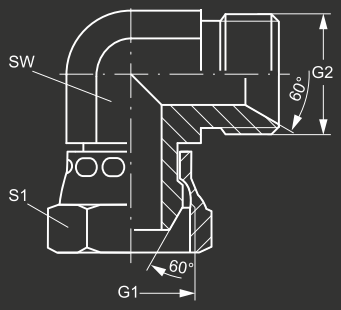
Identification	G1	G2	SW mm	S1	OR
BPP-BPM-90C-0202-MC	G 1/8″–28	G 1/8″–28	11	14	7.97 x 1.88
BPP-BPM-90C-0402-MC	G 1/4″–19	G 1/8″–28	14	19	10.77 x 2.62
BPP-BPM-90C-0404-MC	G 1/4″–19	G 1/4″–19	14	19	10.77 x 2.62
BPP-BPM-90C-0406-MC	G 1/4″–19	G 3/8″–19	14	19	10.77 x 2.62
BPP-BPM-90C-0604-MC	G 3/8″–19	G 1/4″–19	19	22	13.94 x 2.62
BPP-BPM-90C-0606-MC	G 3/8″–19	G 3/8″–19	19	22	13.94 x 2.62
BPP-BPM-90C-0608-MC	G 3/8″–19	G 1/2″–14	19	22	13.94 x 2.62
BPP-BPM-90C-0806-MC	G 1/2″–14	G 3/8″–19	22	27	17.86 x 2.62
BPP-BPM-90C-0808-MC	G 1/2″–14	G 1/2″–14	22	27	17.86 x 2.62
BPP-BPM-90C-0810-MC	G 1/2″–14	G 5/8″–14	22	27	17.86 x 2.62
BPP-BPM-90C-0812-MC	G 1/2″–14	G 3/4″–14	27	27	17.86 x 2.62
BPP-BPM-90C-1208-MC	G 3/4″–14	G 1/2″–14	27	35	23.47 x 2.62
BPP-BPM-90C-1212-MC	G 3/4″–14	G 3/4″–14	27	36	23.47 x 2.62
BPP-BPM-90C-1216-MC	G 3/4″–14	G 1″–11	33	36	23.47 x 2.62
BPP-BPM-90C-1612-MC	G 1″–11	G 3/4″–14	33	41	29.74 x 3.53
BPP-BPM-90C-1616-MC	G 1″–11	G 1″–11	33	41	29.74 x 3.53
BPP-BPM-90C-2016-MC	G 1.1/4″–11	G 1″–11	41	50	37.69 x 3.53
BPP-BPM-90C-2020-MC	G 1.1/4″–11	G 1.1/4″–11	41	50	37.69 x 3.53
BPP-BPM-90C-2424-MC	G 1.1/2″–11	G 1.1/2″–11	48	55	44.04 x 3.53

BSPP Male / Swivel Female 90

Connector, angle 90°



Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Connectors
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm	S1
BSF-BPM-90C-0202-MC	G 1/8″–28	10	14
BSF-BPM-90C-0404-MC	G 1/4″–19	14	19
BSF-BPM-90C-0606-MC	G 3/8″–19	17	22
BSF-BPM-90C-0808-MC	G 1/2″–14	22	27
BSF-BPM-90C-1010-MC	G 5/8″–14	24	30
BSF-BPM-90C-1212-MC	G 3/4″–14	27	32
BSF-BPM-90C-1616-MC	G 1″–11	36	41
BSF-BPM-90C-2020-MC	G 1.1/4″–11	46	50
BSF-BPM-90C-2424-MC	G 1.1/2″–11	50	55
BSF-BPM-90C-3232-MC	G 2″–11	60	70

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

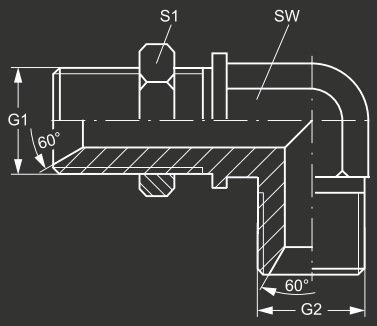
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BSPP Bulkhead 90

Bulkhead fitting socket, angle 90°



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Bulkhead fitting socket
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm	S1
BBM-BPM-90C-0202-MC	G 1/8″-28	11	14
BBM-BPM-90C-0404-MC	G 1/4″-19	14	19
BBM-BPM-90C-0606-MC	G 3/8″-19	19	22
BBM-BPM-90C-0808-MC	G 1/2″-14	22	27
BBM-BPM-90C-1010-MC	G 5/8″-14	22	30
BBM-BPM-90C-1212-MC	G 3/4″-14	27	32
BBM-BPM-90C-1616-MC	G 1″-11	33	41
BBM-BPM-90C-2020-MC	G 1.1/4″-11	41	50
BBM-BPM-90C-2424-MC	G 1.1/2″-11	50	55

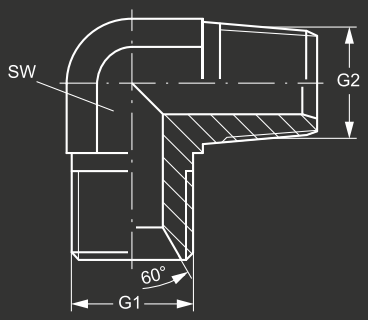
SW, S1, S2 = Width across flats

BSPP Male / NPT Male 90

Screw-in socket, angle 90°



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Connection 2:	NPT external threads
Sealing form 2:	Thread seal
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BPM-NTM-90C-0202-MC	G 1/8″–28	1/8″–27 NPT	11
BPM-NTM-90C-0402-MC	G 1/4″–19	1/8″–27 NPT	14
BPM-NTM-90C-0404-MC	G 1/4″–19	1/4″–18 NPT	14
BPM-NTM-90C-0604-MC	G 3/8″–19	1/4″–18 NPT	19
BPM-NTM-90C-0606-MC	G 3/8″–19	3/8″–18 NPT	19
BPM-NTM-90C-0608-MC	G 3/8″–19	1/2″–14 NPT	22
BPM-NTM-90C-0806-MC	G 1/2″–14	3/8″–18 NPT	22
BPM-NTM-90C-0808-MC	G 1/2″–14	1/2″–14 NPT	22
BPM-NTM-90C-1208-MC	G 3/4″–14	1/2″–14 NPT	27
BPM-NTM-90C-1212-MC	G 3/4″–14	3/4″–14 NPT	27
BPM-NTM-90C-1616-MC	G 1″–11	1″–11.5 NPT	33
BPM-NTM-90C-2020-MC	G 1.1/4″–11	1.1/4″–11.5 NPT	41
BPM-NTM-90C-2424-MC	G 1.1/2″–11	1.1/2″–11.5 NPT	50
BPM-NTM-90C-3232-MC	G 2″–11	2″–11.5 NPT	55

SW = Width across flats

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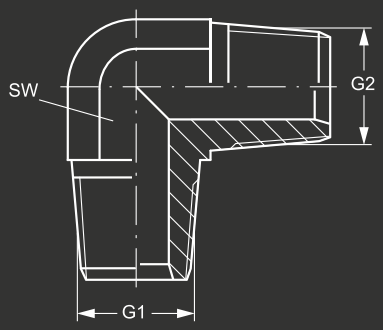
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BSPT Male / Male 90

Screw-in socket, angle 90°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	BSPT conical external threads
Sealing form 2:	Thread seal
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1 + G2	SW mm
BTM-BTM-90C-0202-MC	R 1/8"K	11
BTM-BTM-90C-0404-MC	R 1/4"K	14
BTM-BTM-90C-0606-MC	R 3/8"K	19
BTM-BTM-90C-0808-MC	R 1/2"K	22
BTM-BTM-90C-1212-MC	R 3/4"K	27
BTM-BTM-90C-1616-MC	R 1"K	33

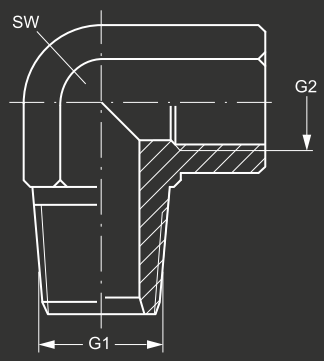
SW = Width across flats

BSPT Male / BSP Female 90

Screw-in socket, angle 90°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	BSP cylindrical internal threads
Sealing form 2:	Flat seal
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BTM-BPF-90C-0202-MC	R 1/8"K	G 1/8"–28	14
BTM-BPF-90C-0404-MC	R 1/4"K	G 1/4"–19	19
BTM-BPF-90C-0606-MC	R 3/8"K	G 3/8"–19	22
BTM-BPF-90C-0808-MC	R 1/2"K	G 1/2"–14	27
BTM-BPF-90C-1212-MC	R 3/4"K	G 3/4"–14	32
BTM-BPF-90C-1616-MC	R 1"K	G 1"–11	41

SW = Width across flats

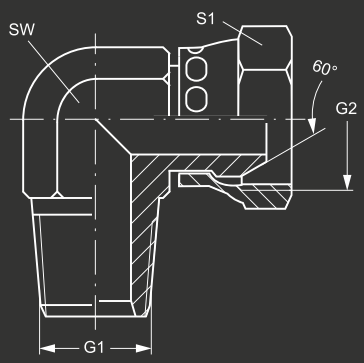
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BSPT Male / BSPP Swivel Female 90

Screw-in socket, angle 90°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	BSP nut thread
Sealing form 2:	60° inner cone
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	S2
BTM-BSF-90C-0404-MC	R 1/4"K	G 1/4"–19	14	19	19
BTM-BSF-90C-0606-MC	R 3/8"K	G 3/8"–19	19	22	22
BTM-BSF-90C-0808-MC	R 1/2"K	G 1/2"–14	22	27	27
BTM-BSF-90C-1212-MC	R 3/4"K	G 3/4"–14	27	32	32
BTM-BSF-90C-1616-MC	R 1"K	G 1"–11	33	41	41
BTM-BSF-90C-2020-MC	R 1.1/4"K	G 1.1/4"–11	41	50	50
BTM-BSF-90C-2424-MC	R 1.1/2"K	G 1.1/2"–11	48	60	60

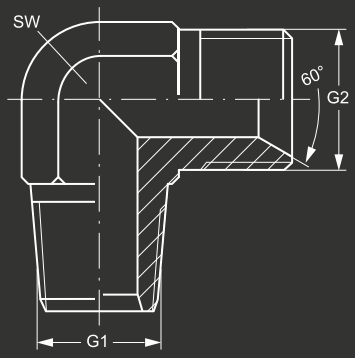
SW, S1, S2 = Width across flats

BSPT Male / BSPP Male 90

Screw-in socket, angle 90°



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm
BTM-BPM-90C-0202-MC	R 1/8"K	G 1/8"-28	11
BTM-BPM-90C-0204-MC	R 1/8"K	G 1/4"-19	11
BTM-BPM-90C-0402-MC	R 1/4"K	G 1/8"-28	14
BTM-BPM-90C-0404-MC	R 1/4"K	G 1/4"-19	14
BTM-BPM-90C-0406-MC	R 1/4"K	G 3/8"-19	14
BTM-BPM-90C-0604-MC	R 3/8"K	G 1/4"-19	14
BTM-BPM-90C-0606-MC	R 3/8"K	G 3/8"-19	17
BTM-BPM-90C-0608-MC	R 3/8"K	G 1/2"-14	19
BTM-BPM-90C-0806-MC	R 1/2"K	G 3/8"-19	19
BTM-BPM-90C-0808-MC	R 1/2"K	G 1/2"-14	19
BTM-BPM-90C-0812-MC	R 1/2"K	G 3/4"-14	27
BTM-BPM-90C-1208-MC	R 3/4"K	G 1/2"-14	27
BTM-BPM-90C-1212-MC	R 3/4"K	G 3/4"-14	27
BTM-BPM-90C-1216-MC	R 3/4"K	G 1"-11	33
BTM-BPM-90C-1612-MC	R 1"K	G 3/4"-14	33
BTM-BPM-90C-1616-MC	R 1"K	G 1"-11	36
BTM-BPM-90C-2020-MC	R 1.1/4"K	G 1.1/4"-11	41
BTM-BPM-90C-2424-MC	R 1.1/2"K	G 1.1/2"-11	48
BTM-BPM-90C-3232-MC	R 2"K	G 2"-11	64

SW = Width across flats

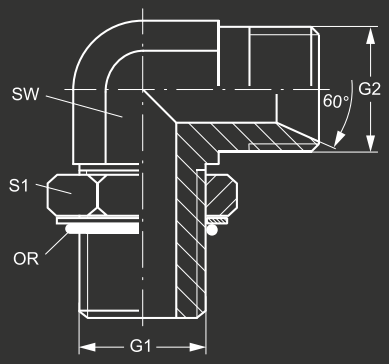
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BSPP Male / UNO Male Positional 90

Screw-in socket, AGR, angle 90°



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal on screw-in socket
Connection 2:	BSP cylindrical external threads
Sealing form 2:	60° inner cone
Design:	Screw-in sockets
Construction:	Angle 90°
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2	SW mm	S1	OR
UNP-BPM-90C-0402-MC	7/16"-20 UNF	G 1/8"-28	11	17	8.92 x 1.83
UNP-BPM-90C-0404-MC	7/16"-20 UNF	G 1/4"-19	11	17	8.92 x 1.83
UNP-BPM-90C-0406-MC	7/16"-20 UNF	G 3/8"-19	14	17	8.92 x 1.83
UNP-BPM-90C-0502-MC	1/2"-20 UNF	G 1/8"-28	14	19	10.52 x 1.83
UNP-BPM-90C-0504-MC	1/2"-20 UNF	G 1/4"-19	14	19	10.52 x 1.83
UNP-BPM-90C-0604-MC	9/16"-18 UNF	G 1/4"-19	14	21	11.90 x 1.98
UNP-BPM-90C-0606-MC	9/16"-18 UNF	G 3/8"-19	14	21	11.90 x 1.98
UNP-BPM-90C-0804-MC	3/4"-16 UNF	G 1/4"-19	19	25	16.36 x 2.20
UNP-BPM-90C-0806-MC	3/4"-16 UNF	G 3/8"-19	19	25	16.36 x 2.20
UNP-BPM-90C-0808-MC	3/4"-16 UNF	G 1/2"-14	19	25	16.36 x 2.20
UNP-BPM-90C-0812-MC	3/4"-16 UNF	G 3/4"-14	22	25	16.36 x 2.20
UNP-BPM-90C-1006-MC	7/8"-14 UNF	G 3/8"-19	22	30	19.18 x 2.46
UNP-BPM-90C-1008-MC	7/8"-14 UNF	G 1/2"-14	22	30	19.18 x 2.46
UNP-BPM-90C-1010-MC	7/8"-14 UNF	G 5/8"-14	22	30	19.18 x 2.46
UNP-BPM-90C-1012-MC	7/8"-14 UNF	G 3/4"-14	22	30	19.18 x 2.46
UNP-BPM-90C-1208-MC	1.1/16"-12 UN	G 1/2"-14	27	36	23.47 x 2.95
UNP-BPM-90C-1212-MC	1.1/16"-12 UN	G 3/4"-14	27	36	23.47 x 2.95
UNP-BPM-90C-1216-MC	1.1/16"-12 UN	G 1"-11	33	36	23.47 x 2.95
UNP-BPM-90C-1612-MC	1.5/16"-12 UN	G 3/4"-14	33	45	29.74 x 2.95
UNP-BPM-90C-1616-MC	1.5/16"-12 UN	G 1"-11	33	45	29.74 x 2.95
UNP-BPM-90C-1620-MC	1.5/16"-12 UN	G 1.1/4"-11	41	45	29.74 x 2.95
UNP-BPM-90C-2016-MC	1.5/8"-12 UN	G 1"-11	41	55	37.47 x 3.00
UNP-BPM-90C-2020-MC	1.5/8"-12 UN	G 1.1/4"-11	41	55	37.47 x 3.00

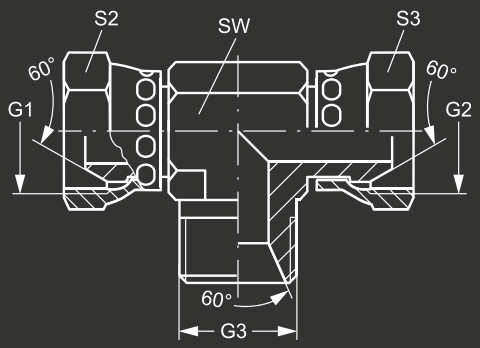
SW, S1, S2 = Width across flats

BSPP Swivel Female Tee / Male Branch

Screw-in socket, T shaped



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Connection 2 +3:	BSP nut thread
Sealing form 2 +3:	60° outer cone
Design:	Screw-in sockets
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S2 + S3
BSF-BSF-BPM-040404-MC	G 1/4"–19	G 1/4"–19	14	19
BSF-BSF-BPM-060606-MC	G 3/8"–19	G 3/8"–19	19	22
BSF-BSF-BPM-080808-MC	G 1/2"–14	G 1/2"–14	22	27
BSF-BSF-BPM-121212-MC	G 3/4"–14	G 3/4"–14	27	32
BSF-BSF-BPM-161616-MC	G 1"–11	G 1"–11	33	41

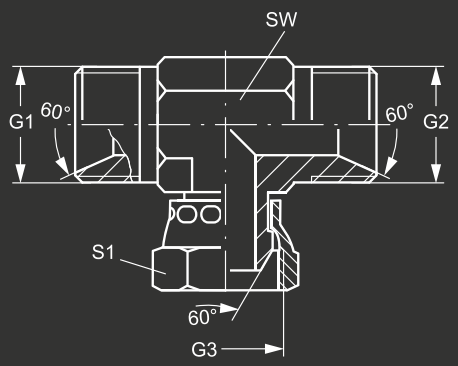
SW, S1, S2 = Width across flats

BSPP Male Tee / Female Swivel Branch

Screw-on socket, T shaped



Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Connection 2 +3:	BSP cylindrical external threads
Sealing form 2 +3:	60° inner cone
Design:	Adjustable direction screw-on socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1
BPM-BPM-BSF-040404-MC	G 1/4"–19	G 1/4"–19	14	19
BPM-BPM-BSF-060606-MC	G 3/8"–19	G 3/8"–19	17	22
BPM-BPM-BSF-080808-MC	G 1/2"–14	G 1/2"–14	22	27
BPM-BPM-BSF-101010-MC	G 5/8"–14	G 5/8"–14	24	30
BPM-BPM-BSF-121212-MC	G 3/4"–14	G 3/4"–14	27	32
BPM-BPM-BSF-161616-MC	G 1"–11	G 1"–11	36	41
BPM-BPM-BSF-202020-MC	G 1.1/4"–11	G 1.1/4"–11	46	50
BPM-BPM-BSF-242424-MC	G 1.1/2"–11	G 1.1/2"–11	50	55

SW, S1, S2 = Width across flats

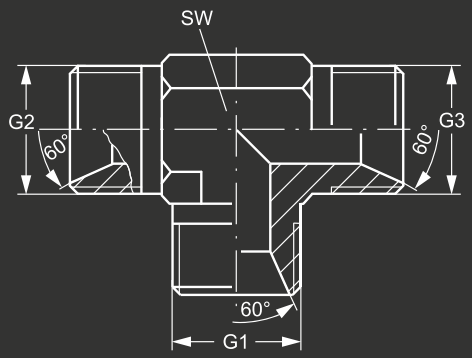
Product Version: Stainless Steel (SS)

BSPP Male Tee

Connection socket, T shaped



Connection 1:	BSP cylindrical external threads
Sealing form 1:	60° inner cone
Connection 2 +3:	Connection sockets
Sealing form 2 +3:	T shaped
Design:	Steel
Construction:	MotusCoat™



Identification	G1 - G3	SW mm
BPM-BPM-BPM-020202-MC	G 1/8″-28	11
BPM-BPM-BPM-040404-MC	G 1/4″-19	14
BPM-BPM-BPM-060606-MC	G 3/8″-19	19
BPM-BPM-BPM-080808-MC	G 1/2″-14	22
BPM-BPM-BPM-101010-MC	G 5/8″-14	22
BPM-BPM-BPM-121212-MC	G 3/4″-14	27
BPM-BPM-BPM-161616-MC	G 1″-11	33
BPM-BPM-BPM-202020-MC	G 1.1/4″-11	41
BPM-BPM-BPM-242424-MC	G 1.1/2″-11	48
BPM-BPM-BPM-323232-MC	G 2″-11	64

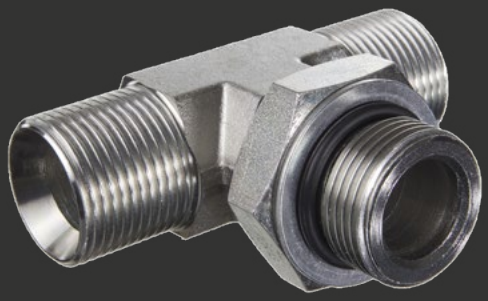
SW = Width across flats

Product Version: Stainless Steel (SS)

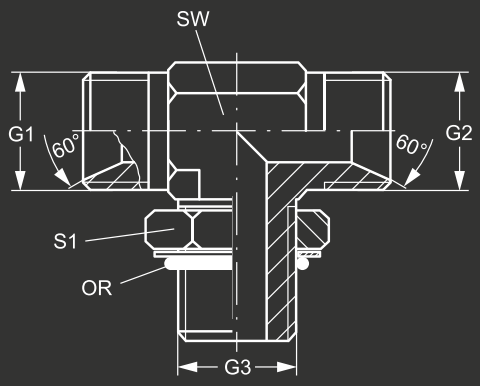
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BSPP Male Tee / UNO Male Positional Branch

Screw-in socket, T shaped



Connection 1 + 2:	BSP nut thread
Sealing form 1:	60° outer cone
Connection 3:	UN/UNF external threads
Sealing form 2 +3:	60° inner cone
Design:	Adjustable direction screw-on socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™

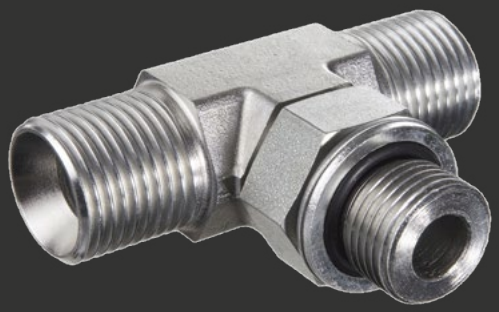


Identification	G1 + G2	G3	SW mm	S1	OR
BPM-BPM-UNP-040406-MC	G 1/4"-19	9/16"-18 UNF	14	17	11.90 x 1.98
BPM-BPM-UNP-060606-MC	G 3/8"-19	9/16"-18 UNF	14	17	11.90 x 1.98
BPM-BPM-UNP-080808-MC	G 1/2"-14	3/4"-16 UNF	19	22	16.36 x 2.20
BPM-BPM-UNP-121210-MC	G 3/4"-14	7/8"-14 UNF	22	27	19.18 x 2.46
BPM-BPM-UNP-121212-MC	G 3/4"-14	1.1/16"-12 UN	27	32	23.47 x 2.95
BPM-BPM-UNP-121216-MC	G 3/4"-14	1.5/16"-12 UN	33	38	29.74 x 2.95

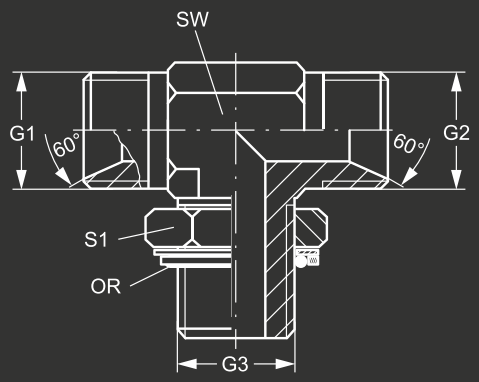
SW, S1, S2 = Width across flats

BSPP Male Tee / Metric Male Positional Branch

Screw-in socket, T shaped



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer
Connection 2 +3:	BSP cylindrical external threads
Sealing form 2 +3:	60° inner cone
Design:	Adjustable direction screw-in socket
Construction:	T shaped
Material:	Steel
Surface:	MotusCoat™



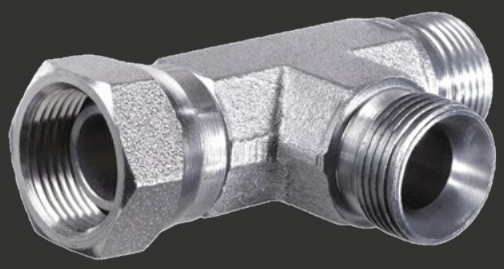
Identification	G1 + G2	G3	SW mm	S1	OR
BPM-BPM-MMP-040412-MC	G 1/4"-19	M 12 x 1.5	13	18	9.3 x 2.4
BPM-BPM-MMP-040414-MC	G 1/4"-19	M 14 x 1.5	14	20	11.3 x 2.4
BPM-BPM-MMP-060614-MC	G 3/8"-19	M 14 x 1.5	14	20	11.3 x 2.4
BPM-BPM-MMP-060616-MC	G 3/8"-19	M 16 x 1.5	19	22	13.3 x 2.4
BPM-BPM-MMP-060618-MC	G 3/8"-19	M 18 x 1.5	19	24	15.3 x 2.4
BPM-BPM-MMP-080818-MC	G 1/2"-14	M 18 x 1.5	19	24	15.3 x 2.4
BPM-BPM-MMP-121222-MC	G 3/4"-14	M 22 x 1.5	22	28	19.3 x 2.4
BPM-BPM-MMP-121226-MC	G 3/4"-14	M 26 x 1.5	32	28	23.5 x 2.6

SW = Width across flats

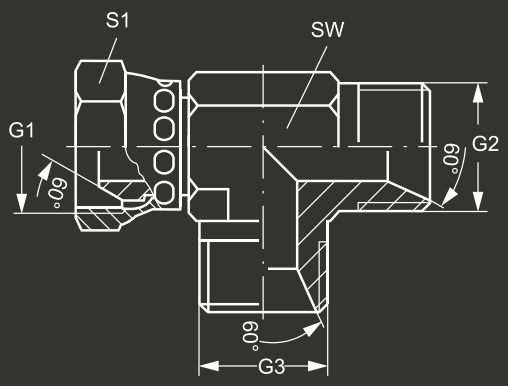
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BSPP Male Tee / BSPP Swivel Female Run

Screw-on socket, L shaped



Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Connection 2 +3:	BSP cylindrical external threads
Sealing form 2 +3:	60° inner cone
Design:	Adjustable direction screw-on socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1
BSF-BPM-BPM-040404-MC	G 1/4"–19	G 1/4"–19	14	19
BSF-BPM-BPM-060606-MC	G 3/8"–19	G 3/8"–19	17	22
BSF-BPM-BPM-080808-MC	G 1/2"–14	G 1/2"–14	22	27
BSF-BPM-BPM-101010-MC	G 5/8"–14	G 5/8"–14	24	30
BSF-BPM-BPM-121212-MC	G 3/4"–14	G 3/4"–14	27	32
BSF-BPM-BPM-161616-MC	G 1"–11	G 1"–11	36	41
BSF-BPM-BPM-202020-MC	G 1.1/4"–11	G 1.1/4"–11	46	50
BSF-BPM-BPM-242424-MC	G 1.1/2"–11	G 1.1/2"–11	50	55
BSF-BPM-BPM-323232-MC	G 2"–11	G 2"–11	60	70

SW, S1, S2 = Width across flats

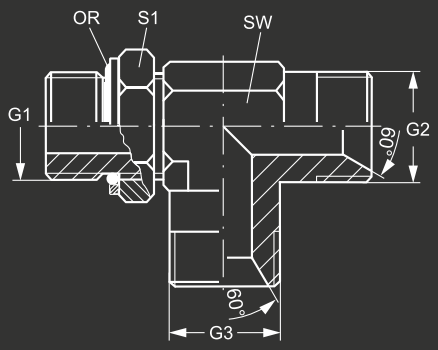
Product Version: Stainless Steel (SS)

BSPP Male Tee / BSPP Male Positional Run

Screw-in socket, L shaped



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2 +3:	BSP cylindrical external threads
Sealing form 2 +3:	60° inner cone
Design:	Adjustable direction screw-in socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1	OR
BPP-BPM-BPM-020202-MC	G 1/8″-28	G 1/8″-28	11	16	7.65 x 1.78
BPP-BPM-BPM-040202-MC	G 1/4″-19	G 1/8″-28	14	20	10.78 x 2.62
BPP-BPM-BPM-040404-MC	G 1/4″-19	G 1/4″-19	14	20	10.78 x 2.62
BPP-BPM-BPM-040606-MC	G 1/4″-19	G 3/8″-19	19	20	10.78 x 2.62
BPP-BPM-BPM-060404-MC	G 3/8″-19	G 1/4″-19	19	24	13.94 x 2.62
BPP-BPM-BPM-060606-MC	G 3/8″-19	G 3/8″-19	19	24	13.94 x 2.62
BPP-BPM-BPM-060808-MC	G 3/8″-19	G 1/2″-14	22	24	13.94 x 2.62
BPP-BPM-BPM-080606-MC	G 1/2″-14	G 3/8″-19	22	28	17.86 x 2.62
BPP-BPM-BPM-080808-MC	G 1/2″-14	G 1/2″-14	22	28	17.86 x 2.62
BPP-BPM-BPM-081010-MC	G 1/2″-14	G 5/8″-14	22	28	17.86 x 2.62
BPP-BPM-BPM-081212-MC	G 1/2″-14	G 3/4″-14	27	28	17.86 x 2.62
BPP-BPM-BPM-120808-MC	G 3/4″-14	G 1/2″-14	27	35	23.47 x 2.62
BPP-BPM-BPM-121212-MC	G 3/4″-14	G 3/4″-14	27	35	23.47 x 2.62
BPP-BPM-BPM-121616-MC	G 3/4″-14	G 1″-11	33	35	23.47 x 2.62
BPP-BPM-BPM-161212-MC	G 1″-11	G 3/4″-14	33	43	29.74 x 3.53
BPP-BPM-BPM-161616-MC	G 1″-11	G 1″-11	33	45	29.74 x 3.53
BPP-BPM-BPM-201616-MC	G 1.1/4″-11	G 1″-11	41	52	37.69 x 3.53
BPP-BPM-BPM-202020-MC	G 1.1/4″-11	G 1.1/4″-11	41	52	37.69 x 3.53
BPP-BPM-BPM-242424-MC	G 1.1/2″-11	G 1.1/2″-11	48	58	44.04 x 3.53

SW, S1, S2 = Width across flats

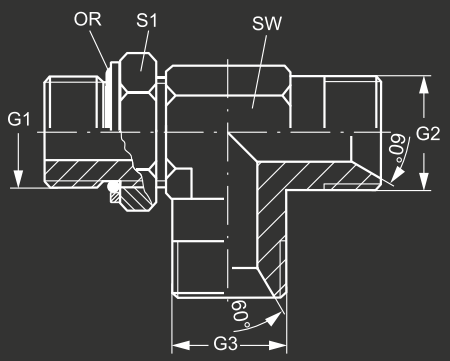
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BSPP Male Tee / Metric Male Positional Run

Screw-in socket, L shaped



Connection 1:	Metric cylindrical outer thread
Sealing form 1:	Thread socket with O-ring + spacer diaphragm ring
Connection 2 +3:	BSP cylindrical external threads
Sealing form 2 +3:	60° inner cone
Design:	Adjustable direction screw-in socket
Construction:	L shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1	G2 + G3	SW mm	S1	OR
MMP-BPM-BPM-120202-MC	M 12 x 1.5	G 1/8″-28	13	18	9.3 x 2.4
MMP-BPM-BPM-120404-MC	M 12 x 1.5	G 1/4″-19	14	18	9.3 x 2.4
MMP-BPM-BPM-140404-MC	M 14 x 1.5	G 1/4″-19	14	20	11.3 x 2.4
MMP-BPM-BPM-140606-MC	M 14 x 1.5	G 3/8″-19	19	20	11.3 x 2.4
MMP-BPM-BPM-160404-MC	M 16 x 1.5	G 1/4″-19	19	22	13.3 x 2.4
MMP-BPM-BPM-160606-MC	M 16 x 1.5	G 3/8″-19	19	22	13.3 x 2.4
MMP-BPM-BPM-180606-MC	M 18 x 1.5	G 3/8″-19	22	24	15.3 x 2.4
MMP-BPM-BPM-180808-MC	M 18 x 1.5	G 1/2″-14	22	24	15.3 x 2.4
MMP-BPM-BPM-200808-MC	M 20 x 1.5	G 1/2″-14	22	28	17.3 x 2.4
MMP-BPM-BPM-220808-MC	M 22 x 1.5	G 1/2″-14	22	28	19.3 x 2.4
MMP-BPM-BPM-221212-MC	M 22 x 1.5	G 3/4″-14	27	28	19.3 x 2.4

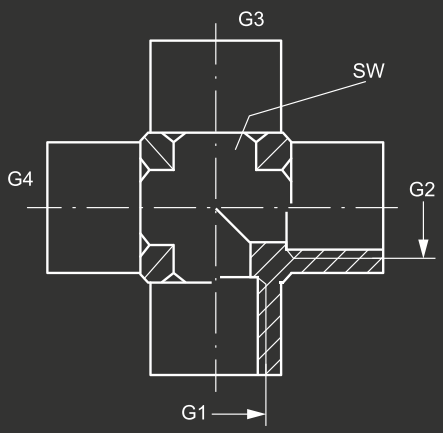
SW, S1, S2 = Width across flats

BSPP Fixed Female Cross

Connector, cross shaped



Connection 1 -4:	BSP cylindrical internal threads
Sealing form 1 -4:	Shape A
Design:	Screw-on socket
Construction:	K shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 - G4	SW mm
BPF-BPF-BPF-BPF-02020202-MC	G 1/8″–28	14
BPF-BPF-BPF-BPF-04040404-MC	G 1/4″–19	19
BPF-BPF-BPF-BPF-06060606-MC	G 3/8″–19	22
BPF-BPF-BPF-BPF-08080808-MC	G 1/2″–14	27
BPF-BPF-BPF-BPF-12121212-MC	G 3/4″–14	33
BPF-BPF-BPF-BPF-16161616-MC	G 1″–11	41

SW = Width across flats

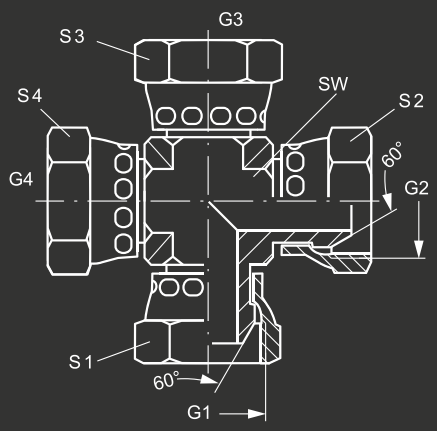
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BSPP Swivel Female Cross

Connector, cross shaped



Connection 1 -4:	BSP nut thread
Sealing form 1 -4:	60° outer cone
Design:	Connectors
Construction:	K shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 - G4	SW mm	S1 - S4 mm
BSF-BSF-BSF-BSF-02020202-MC	G 1/8"-28	11	14
BSF-BSF-BSF-BSF-04040404-MC	G 1/4"-19	14	19
BSF-BSF-BSF-BSF-06060606-MC	G 3/8"-19	19	22
BSF-BSF-BSF-BSF-08080808-MC	G 1/2"-14	22	27
BSF-BSF-BSF-BSF-10101010-MC	G 5/8"-14	22	30
BSF-BSF-BSF-BSF-12121212-MC	G 3/4"-14	27	32
BSF-BSF-BSF-BSF-16161616-MC	G 1"-11	33	41
BSF-BSF-BSF-BSF-20202020-MC	G 1.1/4"-11	41	50
BSF-BSF-BSF-BSF-24242424-MC	G 1.1/2"-11	48	60
BSF-BSF-BSF-BSF-32323232-MC	G 2"-11	64	70

SW, S1, S2 = Width across flats

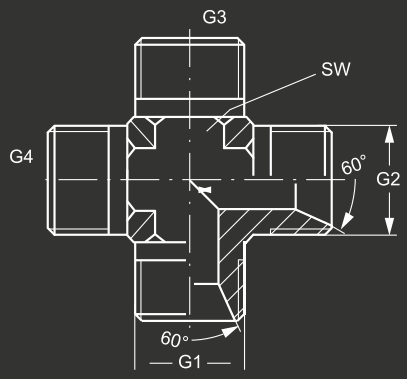
Product Version: Stainless Steel (SS)

BSPP Male Cross

Connector, cross shaped



Connection 1 -4:	BSP cylindrical external threads
Sealing form 1 -4:	60° inner cone
Design:	Connectors
Construction:	K shaped
Material:	Steel
Surface:	MotusCoat™



Identification	G1 - G4	SW mm
BPM-BPM-BPM-BPM-02020202-MC	G 1/8″–28	11
BPM-BPM-BPM-BPM-04040404-MC	G 1/4″–19	14
BPM-BPM-BPM-BPM-06060606-MC	G 3/8″–19	19
BPM-BPM-BPM-BPM-08080808-MC	G 1/2″–14	22
BPM-BPM-BPM-BPM-10101010-MC	G 5/8″–14	22
BPM-BPM-BPM-BPM-12121212-MC	G 3/4″–14	27
BPM-BPM-BPM-BPM-16161616-MC	G 1″–11	33
BPM-BPM-BPM-BPM-20202020-MC	G 1.1/4″–11	41
BPM-BPM-BPM-BPM-24242424-MC	G 1.1/2″–11	48
BPM-BPM-BPM-BPM-32323232-MC	G 2″–11	64

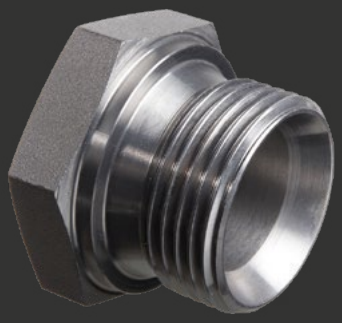
SW = Width across flats

Product Version: Stainless Steel (SS)

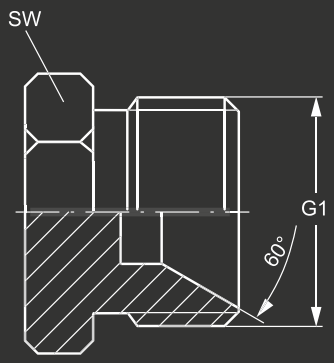
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BSPP Male Blanking Plug

Blanking socket



Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Design:	Blanking socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



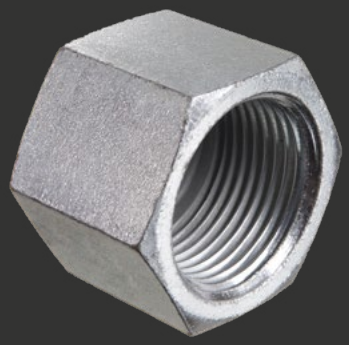
Identification	G1	SW
BPM-02-MC	G 1/8"–28	14
BPM-04-MC	G 1/4"–19	19
BPM-06-MC	G 3/8"–19	22
BPM-08-MC	G 1/2"–14	27
BPM-10-MC	G 5/8"–14	30
BPM-12-MC	G 3/4"–14	32
BPM-16-MC	G 1"–11	41
BPM-20-MC	G 1.1/4"–11	50
BPM-24-MC	G 1.1/2"–11	55
BPM-32-MC	G 2"–11	70

SW, S1, S2 = Width across flats

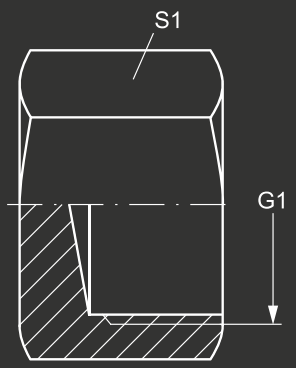
BSPP Male Blanking Plug VA - Blanking socket, Stainless steel

BSPP Fixed Female Blanking Cap

Blanking nut



Connection 1:	BSP cylindrical internal threads
Sealing form 1:	Flat sealing
Design:	Blanking nut
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



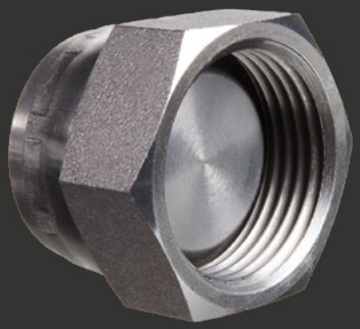
Identification	G1	S1
BPF-02-MC	G 1/8″–28	14
BPF-04-MC	G 1/4″–19	19
BPF-06-MC	G 3/8″–19	22
BPF-08-MC	G 1/2″–14	27
BPF-12-MC	G 3/4″–14	32
BPF-16-MC	G 1″–11	41
BPF-20-MC	G 1.1/4″–11	50
BPF-24-MC	G 1.1/2″–11	55
BPF-32-MC	G 2″–11	70

SW, S1, S2 = Width across flats

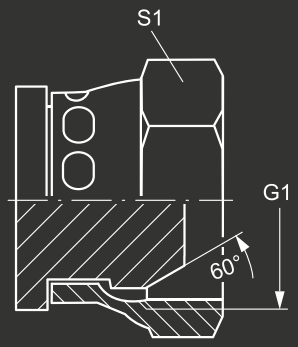
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BSPP Swivel Female Blanking Cap

Blanking nut



Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Design:	Blanking nut
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	S1
BSF-02-MC	G 1/8"-28	14
BSF-04-MC	G 1/4"-19	19
BSF-06-MC	G 3/8"-19	22
BSF-08-MC	G 1/2"-14	27
BSF-10-MC	G 5/8"-14	30
BSF-12-MC	G 3/4"-14	32
BSF-16-MC	G 1"-11	38
BSF-20-MC	G 1.1/4"-11	50
BSF-24-MC	G 1.1/2"-11	55
BSF-32-MC	G 2"-11	70

SW, S1, S2 = Width across flats

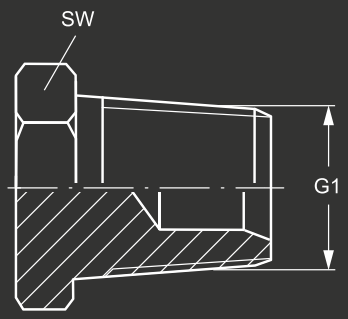
Product Version: Stainless Steel (SS)

BSPT Male Blanking Plug

Blanking socket, with hexagon head



Connection 1:	BSPT conical external threads
Sealing form 1:	Thread seal
Design:	Blanking socket, with hexagon head
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	SW mm
BTM-02-MC	R 1/8"K	12
BTM-04-MC	R 1/4"K	14
BTM-06-MC	R 3/8"K	17
BTM-08-MC	R 1/2"K	22
BTM-10-MC	R 5/8"K	30
BTM-12-MC	R 3/4"K	27
BTM-16-MC	R 1"K	36
BTM-20-MC	R 1.1/4"K	46
BTM-24-MC	R 1.1/2"K	50
BTM-32-MC	R 2"K	70
BTM-40-MC	R 2.1/2"K	70

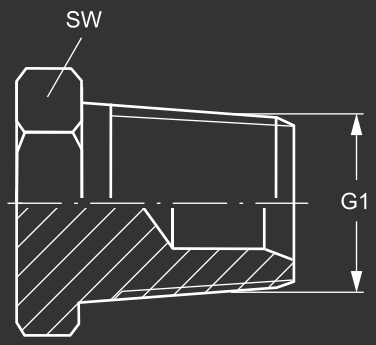
SW, S1, S2 = Width across flats

NPT Male Blanking Plug

Blanking socket



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Design:	Blanking socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	S1
NTM-02-MC	1/8"–27 NPT	14
NTM-04-MC	1/4"–18 NPT	19
NTM-06-MC	3/8"–18 NPT	22
NTM-08-MC	1/2"–14 NPT	27
NTM-12-MC	3/4"–14 NPT	32
NTM-16-MC	1"–11.5 NPT	38
NTM-20-MC	1.1/4"–11.5 NPT	50
NTM-24-MC	1.1/2"–11.5 NPT	55
NTM-32-MC	2"–11.5 NPT	70

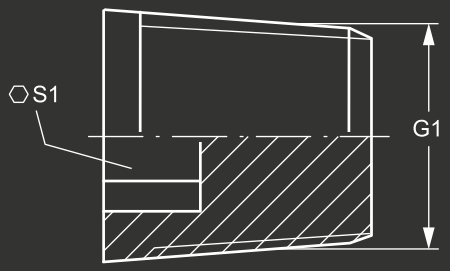
SW, S1, S2 = Width across flats
Product Version: Stainless Steel (SS)

NPT Male Blanking Grub Screw

Blanking socket, with hexagon socket



Connection 1:	NPT external threads
Sealing form 1:	Thread seal
Design:	Blanking socket, with hexagon socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



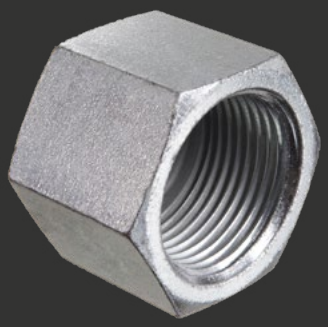
Identification	G1	S1
NTM-GS-02-MC	1/8"–27 NPT	5
NTM-GS-04-MC	1/4"–18 NPT	6
NTM-GS-06-MC	3/8"–18 NPT	8
NTM-GS-08-MC	1/2"–14 NPT	10
NTM-GS-12-MC	3/4"–14 NPT	12
NTM-GS-16-MC	1"–11.5 NPT	17
NTM-GS-20-MC	1.1/4"–11.5 NPT	22
NTM-GS-24-MC	1.1/2"–11.5 NPT	24
NTM-GS-32-MC	2"–11.5 NPT	27

SW, S1, S2 = Width across flats

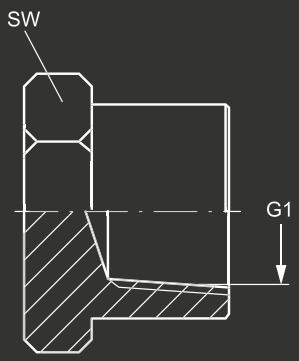
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NPT Fixed Female Blanking Cap

Blanking nut



Connection 1:	NPT internal thread
Sealing form 1:	Thread seal
Design:	Blanking nut
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	SW
NTF-02-MC	1/8"–27 NPT	14
NTF-04-MC	1/4"–18 NPT	17
NTF-06-MC	3/8"–18 NPT	22
NTF-08-MC	1/2"–14 NPT	27
NTF-12-MC	3/4"–14 NPT	32
NTF-16-MC	1"–11.5 NPT	43
NTF-20-MC	1.1/4"–11.5 NPT	50
NTF-24-MC	1.1/2"–11.5 NPT	60
NTF-32-MC	2"–11.5 NPT	73

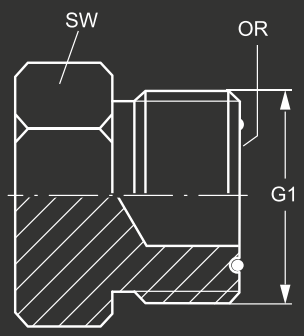
SW, S1, S2 = Width across flats

ORFS Male Blanking Plug

Blanking socket



Connection 1:	ORFS external threads
Sealing form 1:	Flat seal with O-ring
Design:	Blanking socket
Material:	Steel
Surface:	MotusCoat™

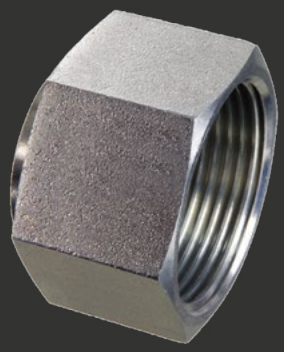


Identification	G1	l mm	L1 mm	SW mm	OR
ORM-09-MC	9/16"-18 UNF	10.0	16.5	17	7.65 x 1.78
ORM-11-MC	11/16"–16 UN	11.0	19.0	19	9.25 x 1.78
ORM-13-MC	13/16"–16 UN	13.0	22.0	22	12.42 x 1.78
ORM-16-MC	1"–14 UNS	15.5	26.0	27	15.60 x 1.78
ORM-19-MC	1.3/16"–12 UN	17.0	27.5	32	18.77 x 1.78
ORM-23-MC	1.7/16"–12 UN	17.5	28.0	41	23.52 x 1.78
ORM-27-MC	1.11/16"–12 UN	17.5	28.0	46	29.87 x 1.78
ORM-32-MC	2"–12 UN	17.5	28.0	55	37.82 x 1.78

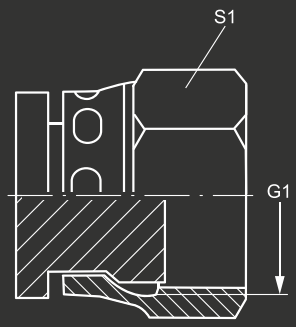
SW, S1, S2 = Width across flats

ORFS Swivel Female Blanking Cap

Blanking nut



Connection 1:	ORFS nut threads
Sealing form 1:	Flat sealing
Design:	Blanking nut
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	S1
ORF-09-MC	9/16"-18 UNF	17
ORF-11-MC	11/16"–16 UN	22
ORF-13-MC	13/16"–16 UN	24
ORF-16-MC	1"–14 UNS	30
ORF-19-MC	1.3/16"–12 UN	36
ORF-23-MC	1.7/16"–12 UN	41
ORF-27-MC	1.11/16"–12 UN	50
ORF-32-MC	2"–12 UN	60

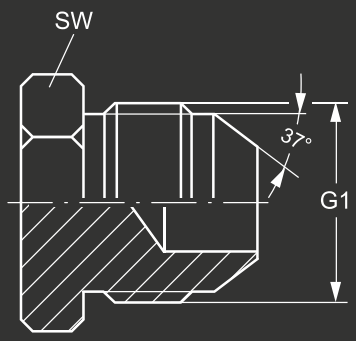
SW, S1, S2 = Width across flats

JIC Male Blanking Plug

Blanking socket



Connection 1:	UN / UNF external threads
Sealing form 1:	74° outer cone
Design:	Blanking socket
Construction:	Steel
Material:	MotusCoat™



Identification	G1	SW
JIM-04-MC	7/16"-20 UNF	12
JIM-05-MC	1/2"-20 UNF	14
JIM-06-MC	9/16"-18 UNF	19
JIM-08-MC	3/4"-16 UNF	19
JIM-10-MC	7/8"-14 UNF	24
JIM-12-MC	1.1/16"-12 UN	27
JIM-14-MC	1.3/16"-12 UN	32
JIM-16-MC	1.5/16"-12 UN	36
JIM-20-MC	1.5/8"-12 UN	46
JIM-24-MC	1.7/8"-12 UN	50
JIM-32-MC	2.1/2"-12 UN	65

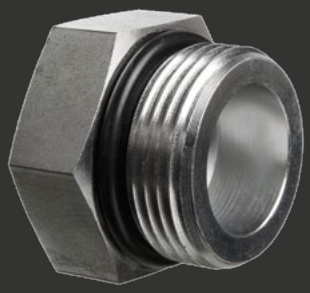
SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

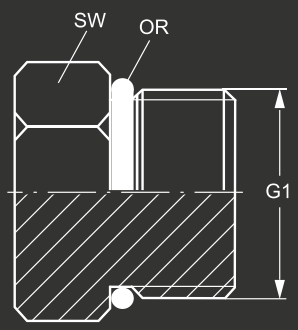
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UNO Male Blanking Plug

Blanking socket



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal
Design:	Blanking socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	SW	OR
UNM-02-MC	5/16″-24 UNF	11	6.07 x 1.63
UNM-03-MC	3/8″-24 UNF	13	7.65 x 1.78
UNM-04-MC	7/16″-20 UNF	14	8.92 x 1.83
UNM-05-MC	1/2″-20 UNF	16	10.52 x 1.83
UNM-06-MC	9/16″-18 UNF	18	11.90 x 1.98
UNM-08-MC	3/4″-16 UNF	22	16.36 x 2.20
UNM-10-MC	7/8″-14 UNF	25	19.18 x 2.46
UNM-12-MC	1.1/16″–12 UN	32	23.47 x 2.95
UNM-14-MC	1.3/16″–12 UN	35	26.59 x 2.95
UNM-16-MC	1.5/16″–12 UN	38	29.74 x 2.95
UNM-20-MC	1.5/8″–12 UN	48	37.47 x 3.00
UNM-24-MC	1.7/8″–12 UN	54	43.69 x 3.00
UNM-32-MC	2.1/2″–12 UN	70	59.36 x 3.00

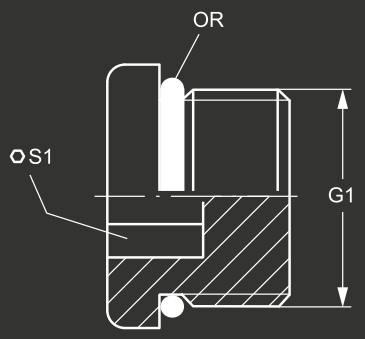
SW, S1, S2 = Width across flats

UNO Male In Hex Plug

Blanking socket, with hexagon socket



Connection 1:	UN / UNF external threads
Sealing form 1:	O-ring seal
Design:	Blanking socket, with hexagon socket
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



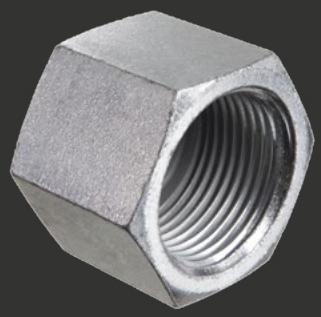
Identification	G1	S1	OR
IHPU-02-MC	5/16″-24 UNF	3	6.07 x 1.63
IHPU-03-MC	3/8″-24 UNF	4	7.65 x 1.78
IHPU-04-MC	7/16″-20 UNF	5	8.92 x 1.83
IHPU-05-MC	1/2″-20 UNF	5	10.52 x 1.83
IHPU-06-MC	9/16″-18 UNF	6	11.90 x 1.98
IHPU-08-MC	3/4″-16 UNF	8	16.36 x 2.20
IHPU-10-MC	7/8″-14 UNF	10	19.18 x 2.46
IHPU-12-MC	1.1/16″–12 UN	14	23.47 x 2.95
IHPU-14-MC	1.3/16″–12 UN	14	26.59 x 2.95
IHPU-16-MC	1.5/16″–12 UN	17	29.74 x 2.95
IHPU-20-MC	1.5/8″–12 UN	22	37.47 x 3.00
IHPU-24-MC	1.7/8″–12 UN	22	43.69 x 3.00
IHPU-32-MC	2.1/2″–12 UN	22	59.36 x 3.00

SW, S1, S2 = Width across flats

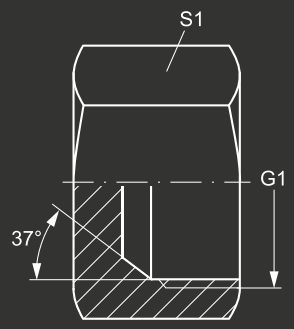
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JIC Fixed Female Blanking Cap

Blanking nut



Connection 1:	UN / UNF inner thread
Sealing form 1:	74° inner cone
Design:	Blanking nut
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™

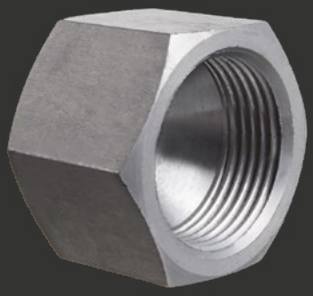


Identification	G1	S1
JFF-04-MC	7/16"-20 UNF	14
JFF-05-MC	1/2"-20 UNF	17
JFF-06-MC	9/16"-18 UNF	19
JFF-08-MC	3/4"-16 UNF	22
JFF-10-MC	7/8"-14 UNF	27
JFF-12-MC	1.1/16"–12 UN	32
JFF-16-MC	1.5/16"–12 UN	41
JFF-20-MC	1.5/8"-12 UN	50
JFF-24-MC	1.7/8"-12 UN	60
JFF-32-MC	2.1/2"-12 UN	73

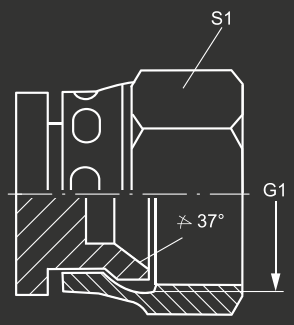
SW, S1, S2 = Width across flats

JIC Swivel Female Blanking Cap

Blanking nut



Connection 1:	UN / UNF inner thread
Sealing form 1:	74° inner cone
Design:	Blanking nut
Construction:	Straight
Material:	Steel
Surface:	MotusCoat™



Identification	G1	S1
JIF-04-MC	7/16"-20 UNF	14
JIF-05-MC	1/2"-20 UNF	17
JIF-06-MC	9/16"-18 UNF	19
JIF-08-MC	3/4"-16 UNF	22
JIF-10-MC	7/8"-14 UNF	27
JIF-12-MC	1.1/16"–12 UN	32
JIF-14-MC	1.3/16"–12 UN	35
JIF-16-MC	1.5/16"-12 UN	41
JIF-20-MC	1.5/8"–12 UN	50
JIF-24-MC	1.7/8"–12 UN	60
JIF-32-MC	2.1/2"–12 UN	75

SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

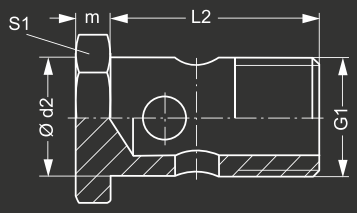
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BSPP Banjo Bolt

Hollow screw



Connection 1:	BSP external thread, cylindrical
Design:	Hollow screw
Material:	Steel
Surface:	MotusCoat™



Identification	G1	Ø d2 mm	L2 mm	m mm	S1 mm
BBB-02-MC	G 1/8″-28	9.9	19.0	5	14
BBB-04-MC	G 1/4″-19	13.1	25.5	5	17
BBB-06-MC	G 3/8″-19	16.6	31.0	7	22
BBB-08-MC	G 1/2″-14	20.9	40.0	8	27
BBB-10-MC	G 5/8″-14	22.9	47.0	9	32
BBB-12-MC	G 3/4″-14	26.4	47.0		32
BBB-16-MC	G 1″-11	33.2	58.0	10	41

SW, S1, S2 = Width across flats

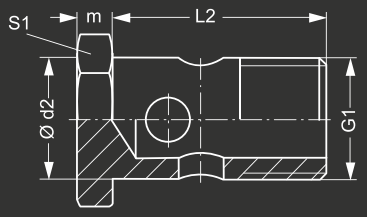
Product Version: Stainless Steel (SS)

Metric Banjo Bolt

Hollow screw



Connection 1:	Metric cylindrical outer thread
Design:	Hollow screw
Material:	Steel
Surface:	MotusCoat™



Identification	G1	Ø d2 mm	L2 mm	m mm	S1
MBB-0610-MC	M 6 x 1	6	17	4	11
MBB-0810-MC	M 8 x 1	8	17	5	12
MBB-1010-MC	M 10 x 1	10	19	6	14
MBB-1215-MC	M 12 x 1.5	12	24	6	17
MBB-1415-MC	M 14 x 1.5	14	26	6	19
MBB-1615-MC	M 16 x 1.5	16	28	6	22
MBB-1815-MC	M 18 x 1.5	18	32	6	24
MBB-2215-MC	M 22 x 1.5	22	39	7	27
MBB-2615-MC	M 26 x 1.5	26	45	7	32
MBB-3015-MC	M 30 x 1.5	30	51	7	36
MBB-3815-MC	M 38 x 1.5	38	61	8	46

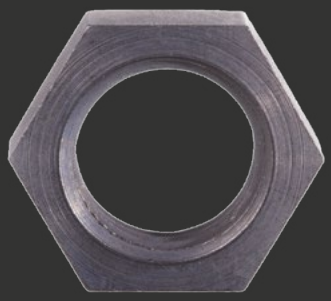
SW, S1, S2 = Width across flats

Product Version: Stainless Steel (SS)

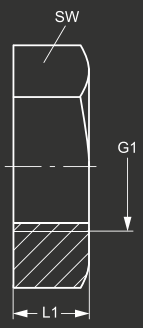
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JIC Bulkhead Nut

Counter nut



Connection 1:	UN / UNF inner thread
Design:	Counter nut
Standard:	ISO 8434-2
Material:	Steel
Surface:	MotusCoat™

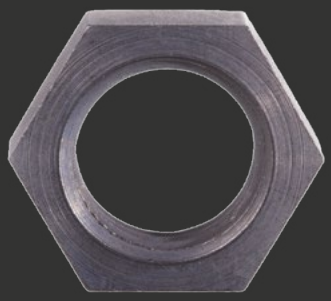


Identification	G1	L1 mm	SW mm
JBN-04-MC	7/16″-20 UNF	6.4	17
JBN-05-MC	1/2″-20 UNF	6.4	19
JBN-06-MC	9/16″-18 UNF	6.9	22
JBN-08-MC	3/4″-16 UNF	7.9	24
JBN-10-MC	7/8″-14 UNF	9.1	30
JBN-12-MC	1.1/16″–12 UN	10.4	36
JBN-16-MC	1.5/16″–12 UN	10.4	41
JBN-20-MC	1.5/8″–12 UN	10.4	50
JBN-24-MC	1.7/8″–12 UN	10.4	55
JBN-32-MC	2.1/2″–12 UN	10.4	70

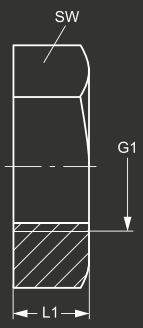
SW = Width across flats

ORFS Bulkhead Nut

Counter nut



Connection 1:	ORFS inner thread
Design:	Counter nut
Standard:	ISO 8434-2
Material:	Steel
Surface:	MotusCoat™



Identification	G1 Thread	L1 mm	SW mm
OBN-09-MC	9/16″-18 UNF	7	22
OBN-11-MC	11/16″–16 UN	8	27
OBN-13-MC	13/16″–16 UN	9	30
OBN-16-MC	1″–14 UNS	11	32
OBN-19-MC	1.3/16″–12 UN	11	38
OBN-23-MC	1.7/16″–12 UN	11	46
OBN-27-MC	1.11/16″–12 UN	10	51
OBN-32-MC	2″–12 UN	10	60

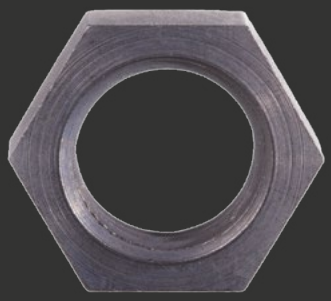
SW = Width across flats

Product Version: Stainless Steel (SS)

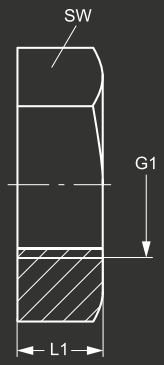
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BSPP Bulkhead Nut

Counter nut



Connection 1:	BSP cylindrical internal threads
Design:	Counter nut
Standard:	ISO 8434-3
Material:	Steel
Surface:	MotusCoat™



Identification	G1 Thread	L1 mm	SW mm
BBN-02-MC	G 1/8″-28	5	14
BBN-04-MC	G 1/4″-19	6	19
BBN-06-MC	G 3/8″-19	7	22
BBN-08-MC	G 1/2″-14	8	27
BBN-10-MC	G 5/8″-14	7	30
BBN-12-MC	G 3/4″-14	9	32
BBN-16-MC	G 1″-11	10	41
BBN-20-MC	G 1.1/4″-11	13	50
BBN-24-MC	G 1.1/2″-11	15	55
BBN-32-MC	G 2″-11	15	70

SW = Width across flats

06





FLANGES & FLANGE CLAMPS

Flange connections provide secure, high-pressure joints in hydraulic systems where threaded connections are unsuitable. Designed for heavy-duty applications, flange systems ensure consistent sealing under high load and vibration.

Included are SAE flange components, split flange clamps, and associated hardware commonly used in construction equipment, mining machinery, industrial presses, and large-scale hydraulic installations.

FLANGES & FLANGE CLAMPS

Flange Clamp Code 61
426



Flange Clamp Code 62
427



Single Piece Flange Code 61 / BSPP Female
428



Single Piece Flange Code 62 / BSPP Female
430



Single Piece Counter Flange Code 61 / BSPP Female
431



Single Piece Counter Flange Code 62 / BSPP Female
432



Single Piece Flange Code 61 / 62 / UNO Female
433



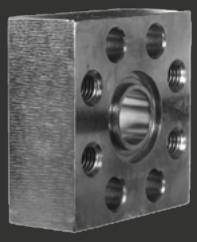
Single Piece Flange Code 61 / JIC male
434



Single Piece Flange Code 62 / JIC Male
435



Reducing Flange Code 62
436



Flange Test Point Adaptor Code 61 / 62
437



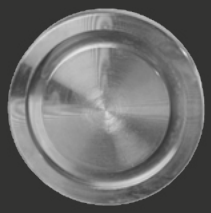
Flange Shim Plate
438



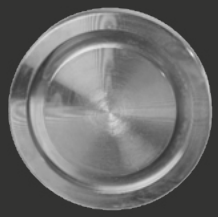
Flange End Plate (Dust Cover)
439



Blanking Flange Code 61
440



Blanking Flange Code 62
441



Single Piece Flange Blank Code 61 / 62
442



Single Piece Socket Weld Flange 90
443



Single Piece Socket Weld Flange 90
444



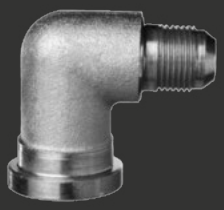
Single Piece Flange Code 61 / BSPP Female 90
445



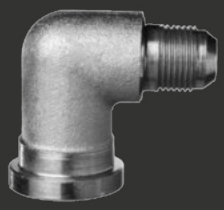
Single Piece Flange Code 62 / BSPP Female 90
446



Code 61 Flange / JIC Male 90
447



Code 62 Flange / JIC Male 90
448

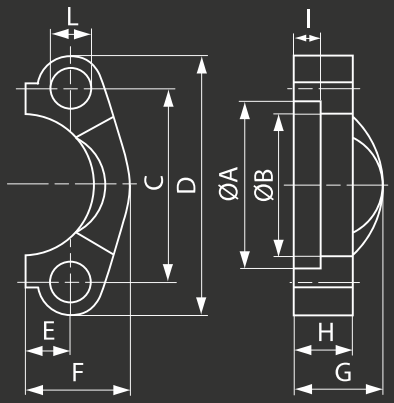


Flange Clamp Code 61

SAE flange half



Pressure series:	3000 psi
Standard:	SAE J518, ISO 6162-1 / -2
Construction:	Straight
Design:	SAE flange half
Mounting:	Screw bore hole
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Electro galvanised



Note: Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M metr.	M unc
FC61-08	350	1/2"	31.0	24.3	38.1	54	8.7	22.8	19	13	6.2	8.7	M 8 x 25	5/16"x 1.1/4"
FC61-12	350	3/4"	38.9	32.1	47.6	65	11.1	25.9	22	14	6.2	10.7	M 10 x 30	3/8"x 1.1/4"
FC61-16	315	1"	45.2	38.5	52.4	70	13.1	29.2	24	16	7.5	10.7	M 10 x 30	3/8"x 1.1/4"
FC61-20-1	250	1.1/4"	51.6	43.7	58.7	79	15.1	36.3	22	16	7.5	12.0	M 10 x 30	7/16"x 1.1/2"
FC61-20-2	250	1.1/4"	51.6	43.7	58.7	79	15.1	36.3	22	16	7.5	10.7	M 10 x 30	-
FC61-20-3	250	1.1/4"	51.6	43.7	58.7	79	15.1	36.3	22	16	7.5	12.7	M 12 x 35	-
FC61-24	200	1.1/2"	61.1	50.8	69.9	94	17.9	41.1	25	16	7.5	13.5	M 12 x 35	1/2"x 1.1/2"
FC61-32	200	2"	72.2	62.7	77.8	102	21.4	48.2	26	16	9.0	13.5	M 12 x 35	1/2"x 1.1/2"
FC61-40	160	2.1/2"	84.9	74.9	88.9	114	25.4	54.1	38	19	9.0	13.5	M 12 x 40	1/2"x 1.1/2"
FC61-48	160	3"	102.4	90.9	106.4	135	31.0	65.3	41	22	9.0	17.0	M 16 x 50	5/8"x 2"
FC61-56	35	3.1/2"	115.1	102.4	120.7	152	34.9	69.5	28	22	10.7	17.0	M 16 x 50	5/8"x 2"
FC61-64	35	4"	127.8	115.1	130.2	162	38.9	76.0	35	25	10.7	17.0	M 16 x 50	5/8"x 2"
FC61-80	35	5"	153.2	140.5	152.4	184	46.0	90.0	41	28	10.7	17.0	M 16 x 55	5/8"x 2"

PN = Nominal pressure PB = Max. operating pressure Series: LL = Very Light L = Light S = Heavy Ø = External pipe diameter

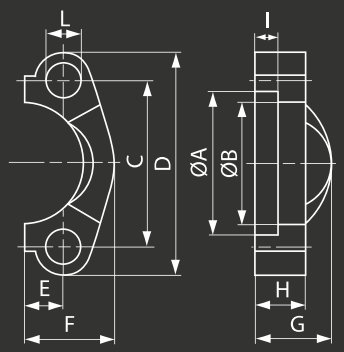
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Flange Clamp Code 62

SAE flange half



Pressure series:	6000 psi
Standard:	SAE J518, ISO 6162-1 / -2
Construction:	Straight
Design:	SAE flange half
Mounting:	Screw bore hole
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Electro galvanised



Note: Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M metr.	M unc
FC62-08	400	1/2"	32.5	24.6	40.5	56	9.1	23.6	22	16	7.2	8.7	M 8 x 30	5/16"x 1.1/4"
FC62-12	400	3/4"	42.1	32.5	50.8	71	11.9	30.0	28	19	8.3	10.7	M 10 x 35	3/8"x 1.1/2"
FC62-16-1	400	1"	48.4	38.9	57.2	81	13.9	34.8	33	24	9.0	13.0	M 12 x 45	-
FC62-16-2	400	1"	48.4	38.9	57.2	81	13.9	34.8	33	24	9.0	12.0	-	7/16"x 1.3/4"
FC62-20-1	400	1.1/4"	54.8	44.5	66.7	95	15.9	38.6	38	27	9.8	14.7	M 14 x 45	-
FC62-20-2	400	1.1/4"	54.8	44.5	66.7	95	15.9	38.6	38	27	9.8	13.5	-	1/2"x 1.3/4"
FC62-24	400	1.1/2"	64.3	51.6	79.4	113	18.3	47.5	43	30	12.1	17.0	M 16 x 55	5/8"x 2"
FC62-32	400	2"	80.2	67.6	96.8	133	22.2	56.9	52	37	12.1	21.0	M 20 x 70	3/4"x 2.1/2"

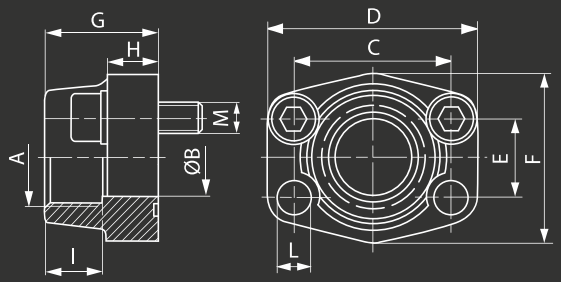
Ø = External pipe diameter Series: LL = Very Light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure

Single Piece Flange Code 61 / BSPP Female

SAE screw-in flange, BSP



Pressure series:	3000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE screw-in flange
Mounting:	Screw bore hole
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M metr.	M unc
SPF61-BPF-0806	350	1/2"	G 3/8"-19	13	38.1	54	17.5	46	36	16	9.0	M 8 x 30	5/16"x 1.1/4"
SPF61-BPF-0808	350	1/2"	G 1/2"-14	13	38.1	54	17.5	46	36	16	9.0	M 8 x 30	5/16"x 1.1/4"
SPF61-BPF-1208	350	3/4"	G 1/2"-14	13	47.6	65	22.2	50	36	18	11.0	M 10 x 35	3/8"x 1.1/2"
SPF61-BPF-1212	350	3/4"	G 3/4"-14	19	47.6	65	22.2	50	36	18	11.0	M 10 x 35	3/8"x 1.1/2"
SPF61-BPF-1608	315	1"	G 1/2"-14	13	52.4	70	26.2	55	38	18	11.0	M 10 x 35	3/8"x 1.1/2"
SPF61-BPF-1612	315	1"	G 3/4"-14	19	52.4	70	26.2	55	35	21	11.0	M 10 x 35	3/8"x 1.1/2"
SPF61-BPF-1616	315	1"	G 1"-11	25	52.4	70	26.2	55	38	18	11.0	M 10 x 35	3/8"x 1.1/2"
SPF61-BPF-2012	250	1.1/4"	G 3/4"-14	19	58.7	79	30.2	68	41	21	11.5	M 10 x 40	7/16"x 1.1/2"
SPF61-BPF-2016-1	250	1.1/4"	G 1"-11	25	58.7	81	30.2	65	42	25	11.5	M 10 x 40	-
SPF61-BPF-2016-2	250	1.1/4"	G 1"-11	25	58.7	81	30.2	65	42	25	13.0	M 12 x 40	-
SPF61-BPF-2020-1	250	1.1/4"	G 1.1/4"-11	32	58.7	79	30.2	68	41	21	11.5	M 10 x 40	-
SPF61-BPF-2020-2	250	1.1/4"	G 1.1/4"-11	32	58.7	79	30.2	68	41	21	13.0	M 12 x 40	-
SPF61-BPF-2412	200	1.1/2"	G 3/4"-14	19	69.9	93	35.7	78	45	25	13.5	M 12 x 45	1/2"x 1.3/4"
SPF61-BPF-2416	200	1.1/2"	G 1"-11	25	69.9	93	35.7	78	45	25	13.5	M 12 x 45	1/2"x 1.3/4"
SPF61-BPF-2420	200	1.1/2"	G 1.1/4"-11	32	69.9	95	35.7	78	45	27	13.5	M 12 x 45	1/2"x 1.3/4"
SPF61-BPF-2424	200	1.1/2"	G 1.1/2"-11	38	69.9	93	35.7	78	45	25	13.5	M 12 x 45	1/2"x 1.3/4"
SPF61-BPF-3216	200	2"	G 1"-11	25	77.8	102	42.9	90	45	25	13.5	M 12 x 45	1/2"x 1.3/4"
SPF61-BPF-3220	200	2"	G 1.1/4"-11	32	77.8	102	42.9	90	45	25	13.5	M 12 x 45	1/2"x 1.3/4"
SPF61-BPF-3224	200	2"	G 1.1/2"-11	38	77.8	102	42.9	90	45	25	13.5	M 12 x 45	1/2"x 1.3/4"
SPF61-BPF-3232	200	2"	G 2"-11	51	77.8	102	42.9	90	45	25	13.5	M 12 x 45	1/2"x 1.3/4"

PN = Nominal pressure PB = Max. operating pressure

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Single Piece Flange Code 61 / BSPP Female

SAE screw-in flange, BSP

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M metr.	M unc
SPF61-BPF-4024	160	2.1/2"	G 1.1/2"-11	38	88.9	114	50.8	105	50	25	13.5	M 12 x 45	1/2"x 1.3/4"
SPF61-BPF-4032	160	2.1/2"	G 2"-11	51	88.9	114	50.8	105	50	25	13.5	M 12 x 45	1/2"x 1.3/4"
SPF61-BPF-4040	160	2.1/2"	G 2.1/2"-11	63	88.9	114	50.8	105	50	25	13.5	M 12 x 45	1/2"x 1.3/4"
SPF61-BPF-4840	138	3"	G 2.1/2"-11	63	106.4	134	61.9	124	50	27	17.5	M 16 x 50	5/8"x 2"
SPF61-BPF-4848	138	3"	G 3"-11	73	106.4	134	61.9	124	50	27	17.5	M 16 x 50	5/8"x 2"
SPF61-BPF-5648	35	3.1/2"	G 3"-11	73	120.7	152	69.9	136	48	27	17.5	M 16 x 50	5/8"x 2"
SPF61-BPF-5656	35	3.1/2"	G 3.1/2"-11	89	120.7	152	69.9	136	48	27	17.5	M 16 x 50	5/8"x 2"
SPF61-BPF-6456	35	4"	G 3.1/2"-11	89	130.2	162	77.8	146	48	27	17.5	M 16 x 50	5/8"x 2"
SPF61-BPF-6464	35	4"	G 4"-11	99	130.2	162	77.8	146	48	27	17.5	M 16 x 50	5/8"x 2"

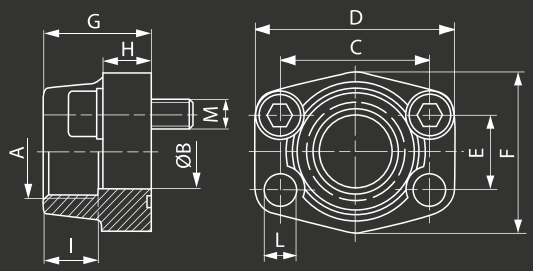
PN = Nominal pressure PB = Max. operating pressure

Single Piece Flange Code 62 / BSPP Female

SAE screw-in flange, BSP



Pressure series:	6000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE screw-in flange
Mounting:	Screw bore hole
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M metr.	M unc
SPF62-BPF-0806	400	1/2"	G 3/8"-19	13	40.5	54	18.2	46	36	16	9	M 8 x 30	5/16"x 1.1/4"
SPF62-BPF-0808	400	1/2"	G 1/2"-14	13	40.5	54	18.2	46	36	16	9	M 8 x 30	5/16"x 1.1/4"
SPF62-BPF-1208	400	3/4"	G 1/2"-14	13	50.8	71	23.8	55	35	21	11	M 10 x 35	3/8"x 1.1/2"
SPF62-BPF-1212	400	3/4"	G 3/4"-14	19	50.8	71	23.8	55	35	21	11	M 10 x 35	3/8"x 1.1/2"
SPF62-BPF-1612	400	1"	G 3/4"-14	19	57.2	81	27.8	65	42	25	13	M 12 x 45	7/16"x 1.3/4"
SPF62-BPF-1616	400	1"	G 1"-11	25	57.2	81	27.8	65	42	25	13	M 12 x 45	7/16"x 1.3/4"
SPF62-BPF-2016	400	1.1/4"	G 1"-11	25	66.7	95	31.8	78	45	27	*1	M 14 x 45	1/2"x 1.3/4"
SPF62-BPF-2020	400	1.1/4"	G 1.1/4"-11	32	66.7	95	31.8	78	45	27	*1	M 14 x 45	1/2"x 1.3/4"
SPF62-BPF-2420	400	1.1/2"	G 1.1/4"-11	32	79.4	112	36.5	94	50	30	17	M 16 x 50	5/8"x 2"
SPF62-BPF-2424	400	1.1/2"	G 1.1/2"-11	38	79.4	112	36.5	94	50	30	17	M 16 x 50	5/8"x 2"
SPF62-BPF-3224	400	2"	G 1.1/2"-11	38	96.8	134	44.5	114	65	37	21	M 20 x 65	3/4"x 2.1/2"
SPF62-BPF-3232	400	2"	G 2"-11	51	96.8	134	44.5	114	65	37	21	M 20 x 65	3/4"x 2.1/2"

PN = Nominal pressure PB = Max. operating pressure
*1) = 15.0 for metric screws; 13.5 for UNC screws

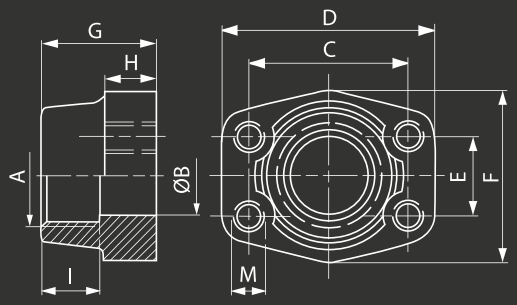
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Single Piece Counter Flange Code 61 / BSPP Female

SAE screw-in counter flange, BSP



Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE screw-in counter flange
Mounting:	Inner thread for metric screws
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	A	ØB mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	M metr.
SPCF61-BPF-0808	3000 PSI	350	1/2"	G 1/2"-14	13	38.1	54	17.5	46	36	16	19	M 8
SPCF61-BPF-0806	3000 PSI	350	1/2"	G 3/8"-19	13	38.1	54	17.5	46	36	16	19	M 8
SPCF61-BPF-1212	3000 PSI	350	3/4"	G 3/4"-14	19	47.6	65	22.2	50	36	18	19	M 10
SPCF61-BPF-1208	3000 PSI	350	3/4"	G 1/2"-14	13	47.6	65	22.2	50	36	18	19	M 10
SPCF61-BPF-1616	3000 PSI	315	1"	G 1"-11	25	52.4	70	26.2	55	38	18	22	M 10
SPCF61-BPF-1612	3000 PSI	315	1"	G 3/4"-14	19	52.4	70	26.2	55	35	21	19	M 10
SPCF61-BPF-2020	3000 PSI	250	1.1/4"	G 1.1/4"-11	32	58.7	79	30.2	68	41	21	22	M 10
SPCF61-BPF-2016	3000 PSI	250	1.1/4"	G 1"-11	25	58.7	81	30.2	65	42	25	22	M 10
SPCF61-BPF-2424	3000 PSI	200	1.1/2"	G 1.1/2"-11	38	69.9	93	35.7	78	45	25	24	M 12
SPCF61-BPF-2420	3000 PSI	200	1.1/2"	G 1.1/4"-11	32	69.9	95	35.7	78	45	27	24	M 12
SPCF61-BPF-3232	3000 PSI	200	2"	G 2"-11	51	77.8	102	42.9	90	45	25	30	M 12
SPCF61-BPF-3224	3000 PSI	200	2"	G 1.1/2"-11	38	77.8	102	42.9	90	45	25	26	M 12
SPCF61-BPF-4040	3000 PSI	160	2.1/2"	G 2.1/2"-11	63	88.9	114	50.8	105	50	25	30	M 12
SPCF61-BPF-4032	3000 PSI	160	2.1/2"	G 2"-11	51	88.9	114	50.8	105	50	25	30	M 12
SPCF61-BPF-4848	3000 PSI	138	3"	G 3"-11	73	106.4	134	61.9	124	50	27	34	M 16
SPCF61-BPF-4840	3000 PSI	138	3"	G 2.1/2"-11	63	106.4	134	61.9	124	50	27	30	M 16
SPCF61-BPF-5656	3000 PSI	35	3.1/2"	G 3.1/2"-11	89	120.7	152	69.9	136	48	27	34	M 16
SPCF61-BPF-5648	3000 PSI	35	3.1/2"	G 3"-11	73	120.7	152	69.9	136	48	27	34	M 16
SPCF61-BPF-6464	3000 PSI	35	4"	G 4"-11	99	130.2	162	77.8	146	48	27	34	M 16
SPCF61-BPF-6456	3000 PSI	35	4"	G 3.1/2"-11	89	130.2	162	77.8	146	48	27	34	M 16

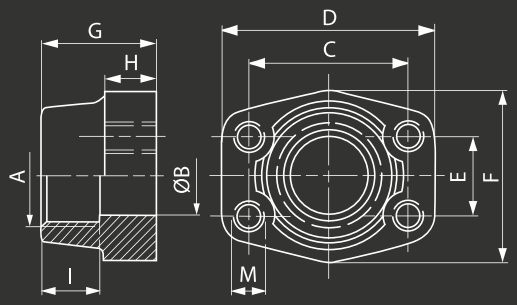
PN = Nominal pressure PB = Max. operating pressure

Single Piece Counter Flange Code 62 / BSPP Female

SAE screw-in counter flange, BSP



Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE screw-in counter flange
Mounting:	Inner thread for metric screws
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	A	ØB mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	M metr.
SPF62-BPF-0806	6000 PSI	400	1/2"	G 3/8"-19	13	40.5	54	18.2	46	36	16	19	M 8
SPF62-BPF-0808	6000 PSI	400	1/2"	G 1/2"-14	13	40.5	54	18.2	46	36	16	19	M 8
SPF62-BPF-1208	6000 PSI	400	3/4"	G 1/2"-14	13	50.8	71	23.8	55	35	21	22	M 10
SPF62-BPF-1212	6000 PSI	400	3/4"	G 3/4"-14	19	50.8	71	23.8	55	35	21	22	M 10
SPF62-BPF-1612	6000 PSI	400	1"	G 3/4"-14	19	57.2	81	27.8	65	42	25	24	M 12
SPF62-BPF-1616	6000 PSI	400	1"	G 1"-11	25	57.2	81	27.8	65	42	25	24	M 12
SPF62-BPF-2016	6000 PSI	400	1.1/4"	G 1"-11	25	66.7	95	31.8	78	45	27	25	M 14
SPF62-BPF-2020	6000 PSI	400	1.1/4"	G 1.1/4"-11	32	66.7	95	31.8	78	45	27	25	M 14
SPF62-BPF-2420	6000 PSI	400	1.1/2"	G 1.1/4"-11	32	79.4	112	36.5	94	50	30	28	M 16
SPF62-BPF-2424	6000 PSI	400	1.1/2"	G 1.1/2"-11	38	79.4	112	36.5	94	50	30	28	M 16
SPF62-BPF-3224	6000 PSI	400	2"	G 1.1/2"-11	38	96.8	134	44.5	114	65	37	30	M 20
SPF62-BPF-3232	6000 PSI	400	2"	G 2"-11	51	96.8	134	44.5	114	65	37	30	M 20

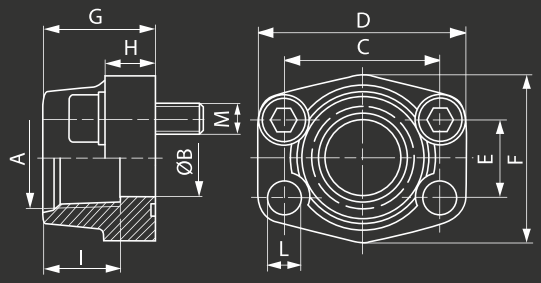
PN = Nominal pressure PB = Max. operating pressure

Single Piece Flange Code 61 / 62 / UNO Female

SAE screw-in flange, UN / UNF



Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE screw-in flange
Mounting:	Screw bore hole
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm
SPF61-UNF-0808	3000 PSI	350	1/2"	UNF 3/4"–16	13	38.1	54	17.5	46	36	16	17	9.0
SPF61-UNF-1212	3000 PSI	350	3/4"	UNF 1.1/16"–12	19	47.6	65	22.3	50	36	18	23	11.0
SPF61-UNF-1616	3000 PSI	315	1"	UN 1.5/16"–12	25	52.4	70	26.2	55	38	18	23	11.0
SPF61-UNF-2020	3000 PSI	250	1.1/4"	UN 1.5/8"–12	32	58.7	79	30.2	68	41	21	23	11.5
SPF61-UNF-2424	3000 PSI	200	1.1/2"	UN 1.7/8"–12	38	69.9	93	35.7	78	45	25	23	13.5
SPF62-UNF-0808	6000 PSI	400	1/2"	UNF 3/4"–16	13	40.5	54	18.2	46	36	16	17	9.0
SPF62-UNF-1212	6000 PSI	400	3/4"	UNF 1.1/16"–12	19	50.8	71	23.8	55	35	21	23	11.0
SPF62-UNF-1616	6000 PSI	400	1"	UN 1.5/16"–12	25	57.2	81	27.8	65	42	25	23	13.0
SPF62-UNF-2020	6000 PSI	400	1.1/4"	UN 1.5/8"–12	32	66.7	95	31.8	78	45	27	23	*1
SPF62-UNF-2424	6000 PSI	400	1.1/2"	UN 1.7/8"–12	38	79.4	112	36.5	94	50	30	23	17.0

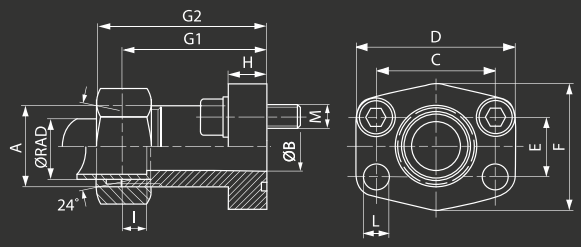
PN = Nominal pressure PB = Max. operating pressure
*1) = 15.0 for metric screws; 13.5 for UNC screws

Single Piece Flange Code 61 / JIC male

SAE external thread flange



Pressure series:	3000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE external thread flange
Mounting:	Screw bore hole
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M metr.	M unc
SPF61-JIM-0808	350	1/2"	UNF 3/4"–16	9.9	38.1	54	17.5	46	52	13	9.0	M 8 x 30	5/16"x 1.1/4"
SPF61-JIM-0810	350	1/2"	UNF 7/8"–14	12.3	38.1	54	17.5	46	52	13	9.0	M 8 x 30	3/8"x 1.1/4"
SPF61-JIM-1212	350	3/4"	UNF 1.1/16"–12	15.5	47.6	65	22.2	50	60	14	11.5	M 10 x 30	3/8"x 1.1/4"
SPF61-JIM-1616	315	1"	UN 1.5/16"–12	21.5	52.4	70	26.2	55	63	16	11.5	M 10 x 30	3/8"x 1.1/4"
SPF61-JIM-2016	250	1.1/4"	UN 1.5/16"–12	21.5	58.7	79	30.2	68	65	14	11.5	M 10 x 30	7/16"x 1.1/2"
SPF61-JIM-2020	250	1.1/4"	UN 1.5/8"–12	27.5	58.7	79	30.2	68	65	14	11.5	M 10 x 30	7/16"x 1.1/2"
SPF61-JIM-2424	200	1.1/2"	UN 1.7/8"–12	33.0	69.9	94	35.7	78	70	16	13.5	M 12 x 35	1/2"x 1.1/2"

PN = Nominal pressure PB = Max. operating pressure Series: LL = Very Light L = Light S = Heavy Ø = External pipe diameter

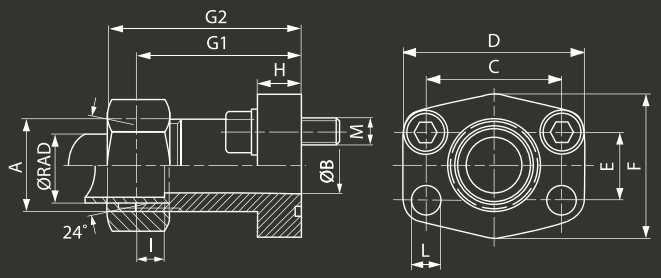
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Single Piece Flange Code 62 / JIC Male

SAE external thread flange



Pressure series:	6000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE external thread flange
Mounting:	Screw bore hole
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



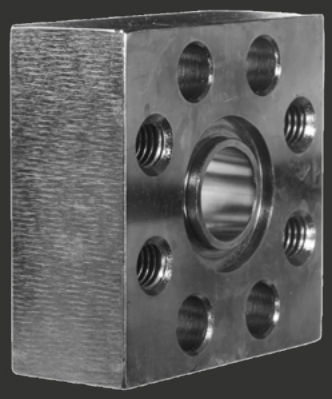
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M metr.	M unc	M unc
SPF62-JIM-0808	400	1/2"	UNF 3/4"–16	9.9	40.5	56	18.2	48	60	16	9.0	M 8 x 30	5/16"x 1.1/4"	5/16"x 1.1/4"
SPF62-JIM-0810	400	1/2"	UNF 7/8"–14	12.3	40.5	56	18.2	48	60	16	9.0	M 8 x 30	5/16"x 1.1/4"	5/16"x 1.1/4"
SPF62-JIM-1212	400	3/4"	UNF 1.1/16"–12	15.5	50.8	71	23.8	60	73	19	11.5	M 10 x 35	3/8"x 1.1/2"	3/8"x 1.1/2"
SPF62-JIM-1616	400	1"	UN 1.5/16"–12	21.5	57.2	81	27.8	70	82	24	13.0	M 12 x 45	7/16"x 1.3/4"	3/8"x 1.1/2"
SPF62-JIM-2020	400	1.1/4"	UN 1.5/8"–12	27.5	66.7	95	31.8	78	92	27	*1	M 14 x 50	1/2"x 1.3/4"	7/16"x 1.3/4"
SPF62-JIM-2016	400	1.1/4"	UN 1.5/16"–12	21.5	66.7	95	31.8	78	92	27	*1	M 14 x 50	1/2"x 1.3/4"	7/16"x 1.3/4"
SPF62-JIM-2424	400	1.1/2"	UN 1.7/8"–12	33.0	79.4	113	36.5	95	96	30	17.5	M 16 x 50	5/8"x 2"	1/2"x 1.3/4"

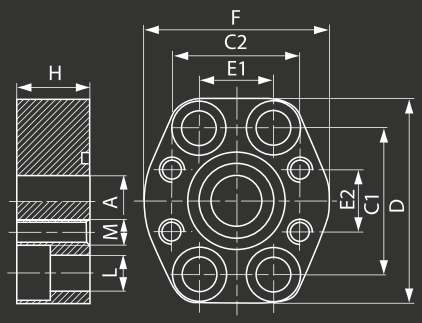
Series: LL = Very Light L = Light S = Heavy Ø = External pipe diameter PN = Nominal pressure PB = Max. operating pressure
*1) = 15.0 for metric screws; 13.5 for UNC screws

Reducing Flange Code 62

SAE reduction



Pressure series:	6000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE reduction
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A mm	C1 mm	C2 mm	D mm	E1 mm	E2 mm	F mm	H mm	L mm	M metr.	Screws
SPRF62-1212	400	3/4"x 3/4"	19	50.8	50.8	70	23.8	23.8	70	28	11	M 10	M 10 x 35
SPRF62-1612	400	1"x 3/4"	19	57.2	50.8	80	27.8	23.8	70	30	13	M 10	M 12 x 40
SPRF62-1616	400	1"x 1"	25	57.2	57.2	80	27.8	27.8	75	36	13	M 12	M 12 x 45
SPRF62-2016	400	1.1/4"x 1"	23	68.7	57.2	100	31.8	27.8	83	25	15	M 12	M 14 x 40
SPRF62-2020	400	1.1/4"x 1.1/4"	31	68.7	68.7	100	31.8	31.8	90	35	15	M 14	M 14 x 50
SPRF62-2420	400	1.1/2"x 1.1/4"	32	79.4	68.7	113	36.5	31.8	95	48	17	M 14	M 16 x 55
SPRF62-2424	400	1.1/2"x 1.1/2"	38	79.4	79.4	113	36.5	36.5	105	50	17	M 16	M 16 x 55

PN = Nominal pressure PB = Max. operating pressure

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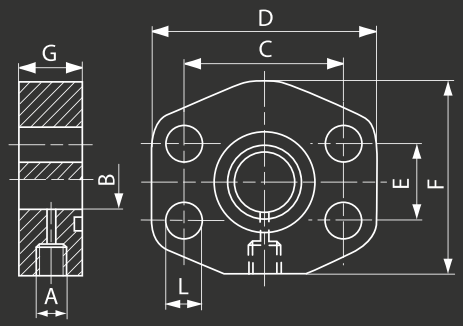
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Flange Test Point Adaptor Code 61 / 62

SAE adapter flange with measuring connection



Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE adapter flange with measuring connection
Mounting:	Screw bore hole
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	A	G mm	Ø B mm	C mm	D mm	E mm	F mm	L mm
SPTAF61-08	3000 PSI	350	1/2"	G 1/4"–19	24	12	38.1	55	17.5	38	9.0
SPTAF61-12	3000 PSI	350	3/4"	G 1/4"–19	24	19	47.6	65	22.3	50	11.0
SPTAF61-16	3000 PSI	315	1"	G 1/4"–19	24	24	52.4	70	26.2	50	11.0
SPTAF61-20	3000 PSI	250	1.1/4"	G 1/4"–19	23	32	58.7	81	30.2	70	12.5
SPTAF61-24	3000 PSI	200	1.1/2"	G 1/4"–19	24	38	69.9	95	35.7	78	13.5
SPTAF61-32	3000 PSI	200	2"	G 1/4"–19	24	50	77.8	102	42.9	90	13.5
SPTAF62-08	6000 PSI	400	1/2"	G 1/4"–19	24	12	40.5	55	18.2	38	9.0
SPTAF62-12	6000 PSI	400	3/4"	G 1/4"–19	24	19	50.8	70	23.8	50	11.0
SPTAF62-16	6000 PSI	400	1"	G 1/4"–19	23	24	57.2	81	27.8	70	13.0
SPTAF62-20	6000 PSI	400	1.1/4"	G 1/4"–19	24	32	66.7	95	31.8	78	15.0
SPTAF62-24	6000 PSI	400	1.1/2"	G 1/4"–19	24	38	79.4	112	36.5	94	17.0
SPTAF62-32	6000 PSI	400	2"	G 1/4"–19	24	51	96.8	134	44.5	114	21.0

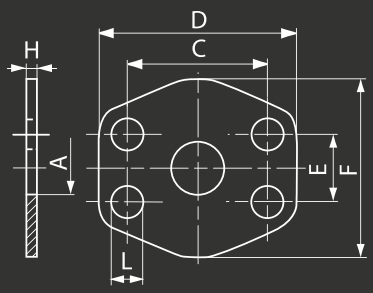
PN = Nominal pressure PB = Max. operating pressure

Flange Shim Plate

SAE shim



Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE shim
Mounting:	Screw bore hole
Material:	Steel ST 35
Surface:	Black oiled



Identification	Pressure series	Size	A mm	C mm	D mm	E mm	F mm	H mm	L mm
SPSF61-08	3000 PSI	1/2″	13	38.1	54	17.5	45.6	3	9
SPSF61-12	3000 PSI	3/4″	19	47.6	65	22.2	51.8	3	11
SPSF61-16	3000 PSI	1"	25	52.4	70	26.2	58.4	3	11
SPSF61-20	3000 PSI	1.1/4″	32	58.7	79	30.2	72.6	3	11
SPSF61-24	3000 PSI	1.1/2″	38	69.9	94	35.7	82.2	3	13
SPSF61-32	3000 PSI	2"	51	77.8	102	42.9	90.0	3	13
SPSF61-40	3000 PSI	2.1/2″	63	88.9	114	50.8	108.0	3	13
SPSF61-48	3000 PSI	3"	73	106.4	135	61.9	130.6	4	17
SPSF61-56	3000 PSI	3.1/2″	89	120.7	152	69.9	139.0	4	17
SPSF61-64	3000 PSI	4"	99	130.2	162	77.8	152.0	4	17
SPSF61-80	3000 PSI	5"	120	152.4	184	92.1	180.0	4	17
SPSF62-08	6000 PSI	1/2″	13	40.5	56	18.2	47.2	4	9
SPSF62-12	6000 PSI	3/4″	17	50.8	71	23.8	60.0	4	11
SPSF62-16	6000 PSI	1"	24	57.2	81	27.8	69.6	4	13
SPSF62-20	6000 PSI	1.1/4″	31	66.7	95	31.8	77.2	4	15
SPSF62-24	6000 PSI	1.1/2″	38	79.4	113	36.5	95.0	4	17
SPSF62-32	6000 PSI	2"	51	96.8	133	44.5	113.8	4	21

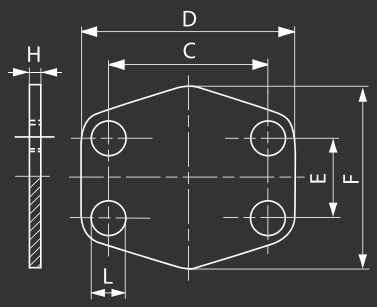
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Flange End Plate (Dust Cover)

SAE end plate



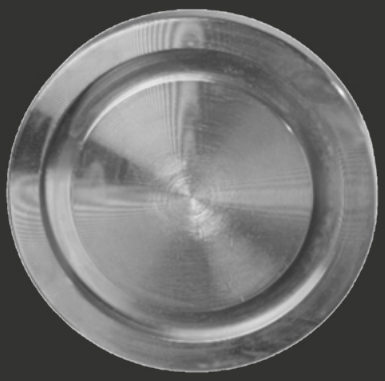
Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE end plate
Mounting:	Screw bore hole
Material:	Steel ST 35
Surface:	Black oiled



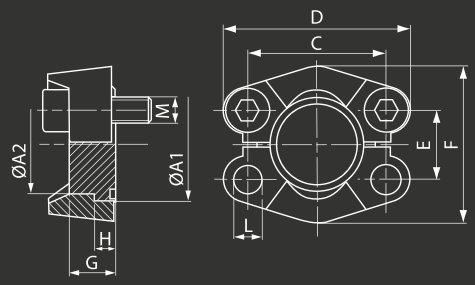
Identification	Pressure Series	Size	C mm	D mm	E mm	F mm	H mm	L mm
EPF61-08	3000 PSI	1/2"	38.1	54	17.5	45.6	3	9
EPF61-12	3000 PSI	3/4"	47.6	65	22.3	51.8	3	11
EPF61-16	3000 PSI	1"	52.4	70	26.2	58.4	3	11
EPF61-20	3000 PSI	1.1/4"	58.7	79	30.2	72.6	3	11
EPF61-24	3000 PSI	1.1/2"	69.9	94	35.7	82.2	3	13
EPF61-32	3000 PSI	2"	77.8	102	42.9	90.0	3	13
EPF61-40	3000 PSI	2.1/2"	88.9	114	50.8	108.1	3	13
EPF61-48	3000 PSI	3"	106.4	135	61.9	130.6	4	17
EPF61-56	3000 PSI	3.1/2"	120.7	152	69.9	139.0	4	17
EPF61-64	3000 PSI	4"	130.2	162	77.8	152.0	4	17
EPF61-80	3000 PSI	5"	152.4	184	92.1	180.0	4	17
EPF62-08	6000 PSI	1/2"	40.5	56	18.2	47.2	4	9
EPF62-12	6000 PSI	3/4"	50.8	71	23.8	60.0	4	11
EPF62-16	6000 PSI	1"	57.2	81	27.8	69.6	4	13
EPF62-20	6000 PSI	1.1/4"	66.7	95	31.8	77.2	4	15
EPF62-24	6000 PSI	1.1/2"	79.4	113	36.5	95.0	4	17
EPF62-32	6000 PSI	2"	96.8	133	44.5	113.8	4	21

Blanking Flange Code 61

SAE blind plate



Pressure series:	3000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE blind plate
Included in scope of supply:	Blind plate only
Material:	S355J2G3 (C22)
Surface:	Zinc Nickel



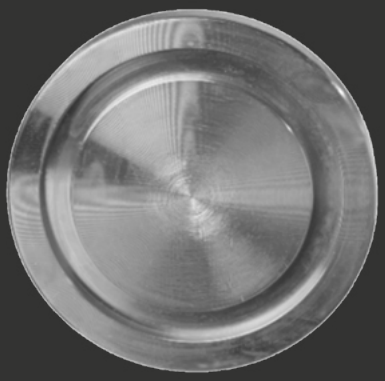
Identification	PB 10.9 bar	Size	A1 mm	A2 mm	G mm	C mm	D mm	E mm	F mm	H mm	L mm	M metr.	M unc
F61S-08-MC	350	1/2"	30.2	24.0	16	38.1	54	17.5	46	6.8	8.7	M 8 x 25	5/16"x 1.1/4"
F61S-12-MC	350	3/4"	38.1	31.8	17	47.6	65	22.3	52	6.8	10.7	M 10 x 30	3/8"x 1.1/4"
F61S-16-MC	315	1"	44.5	38.0	17	52.4	70	26.2	59	8.0	10.7	M 10 x 30	3/8"x 1.1/4"
F61S-20-MC	250	1.1/4"	50.8	43.0	17	58.7	79	30.2	73	8.0	*1	*2	7/16"x 1.1/2"
F61S-24-MC	200	1.1/2"	60.3	50.0	19	69.9	94	35.7	83	8.0	13.5	M 12 x 35	1/2"x 1.1/2"
F61S-32-MC	200	2"	71.4	62.0	19	77.8	102	42.9	97	9.6	13.5	M 12 x 35	1/2"x 1.1/2"

PN = Nominal pressure PB = Max. operating pressure
*1) = Choice of 10.75 or 12.0 or 12.75

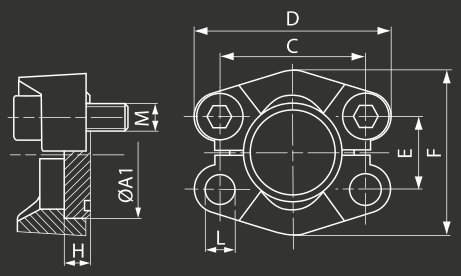
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Blanking Flange Code 62

SAE blind plate



Pressure series:	6000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE blind plate
Included in scope of supply:	Blind plate only
Material:	S355J2G3 (C22)
Surface:	Zinc Nickel



Identification	PB 10.9 bar	Size	A1 mm	G mm	C mm	D mm	E mm	F mm	H mm	L mm	M metr.	M unc
F62S-08-MC	250	1/2"	31.8	14	40.5	56	18.2	48	7.8	8.7	M 8 x 30	5/16"x 1.1/4"
F62S-12-MC	250	3/4"	41.3	15	50.8	71	23.8	60	8.8	10.5	M 10 x 35	3/8"x 1.1/2"
F62S-16-MC	250	1"	47.6	16	57.2	81	27.8	70	9.5	*1	M 12 x 45	7/16"x 1.3/4"
F62S-20-MC	250	1.1/4"	54.0	16	66.6	95	31.8	78	10.4	*2	M 14 x 45	1/2"x 1.3/4"
F62S-24-MC	250	1.1/2"	63.5	19	79.3	113	36.5	95	12.6	17.0	M 16 x 55	5/8"x 2"
F62S-32-MC	250	2"	79.4	30	96.8	133	44.5	114	12.6	21.0	M 20 x 70	3/4"x 2.1/2"

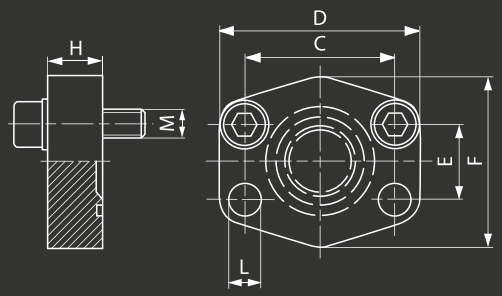
PN = Nominal pressure PB = Max. operating pressure
*1) = Choice of 12.0 or 12.5

Single Piece Flange Blank Code 61 / 62

SAE sealing flange



Standard:	SAE J 518 C, ISO 6162
Construction:	Straight
Design:	SAE sealing flange
Mounting:	Screw bore hole
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	Pressure Series	PB 10.9 bar	Size	C mm	D mm	E mm	F mm	H mm	L mm	M metr.	M unc
SPF61-08	3000 PSI	350	1/2"	38.1	56	17.5	48	16	9.0	M 8 x 30	5/16"x 1.1/4"
SPF61-12	3000 PSI	350	3/4"	47.6	65	22.2	50	16	11.0	M 10 x 35	3/8"x 1.1/2"
SPF61-16	3000 PSI	315	1"	52.4	70	26.2	60	19	11.0	M 10 x 35	3/8"x 1.1/2"
SPF61-20	3000 PSI	250	1.1/4"	58.7	79	30.2	68	18	11.5	M 10 x 40	7/16"x 1.1/2"
SPF61-24	3000 PSI	200	1.1/2"	69.9	93	35.7	78	20	13.5	M 12 x 45	7/16"x 1.1/2"
SPF61-32	3000 PSI	200	2"	77.8	102	42.9	90	20	13.5	M 12 x 45	7/16"x 1.1/2"
SPF61-40	3000 PSI	160	2.1/2"	88.9	114	50.8	105	20	13.5	M 12 x 45	7/16"x 1.1/2"
SPF61-48	3000 PSI	138	3"	106.4	134	61.9	124	24	17.5	M 16 x 50	5/8"x 2"
SPF61-56	3000 PSI	35	3.1/2"	120.7	152	69.9	136	22	17.5	M 16 x 50	5/8"x 2"
SPF61-64	3000 PSI	35	4"	130.2	162	77.8	146	25	17.5	M 16 x 50	5/8"x 2"
SPF61-80	3000 PSI	35	5"	152.4	190	92.1	170	28	17.5	M 16 x 50	5/8"x 2"
SPF62-08	6000 PSI	400	1/2"	40.5	56	18.2	48	16	9.0	M 8 x 30	5/16"x 1.1/4"
SPF62-12	6000 PSI	400	3/4"	50.8	71	23.8	60	19	11.0	M 10 x 35	3/8"x 1.1/2"
SPF62-16	6000 PSI	400	1"	57.2	81	27.8	70	24	13.0	M 12 x 45	7/16"x 1.3/4"
SPF62-20	6000 PSI	400	1.1/4"	66.7	95	31.8	78	27	*1	M 14 x 45	1/2"x 1.3/4"
SPF62-24	6000 PSI	400	1.1/2"	79.4	112	36.5	94	30	17.0	M 16 x 50	5/8"x 2"
SPF62-32	6000 PSI	400	2"	96.8	134	44.5	114	28	21.0	M 20 x 65	3/4"x 2.1/2"

PN = Nominal pressure PB = Max. operating pressure
*1) = 15.0 for metric screws; 13.5 for UNC screws

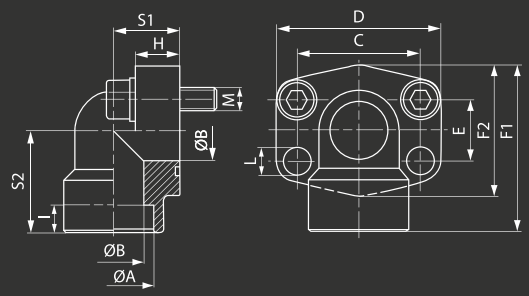
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Single Piece Socket Weld Flange 90

SAE socket weld flange, angle 90



Pressure series:	3000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	Angle 90°
Design:	SAE socket weld flange
Mounting:	Screw bore hole
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by he pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	Ø A mm	Ø B mm	C mm	E mm	F1 mm	l mm	S1 mm	S2 mm	L mm	M metr.	M unc
SPSWF61-90C-0821.6	350	1/2"	21.6	13	38.1	17.5	60	10	20	37	9.0	M 8 x 30	5/16"x 1.1/4"
SPSWF61-90C-0817.5	350	1/2"	17.5	13	38.1	17.5	60	10	20	37	9.0	M 8 x 30	5/16"x 1.1/4"
SPSWF61-90C-1227.2	350	3/4"	27.2	19	47.6	22.2	63	10	24	38	11.0	M 10 x 35	3/8"x 1.1/2"
SPSWF61-90C-1635	315	1"	35.0	25	52.4	26.2	70	12	28	43	11.0	M 10 x 35	3/8"x 1.1/2"
SPSWF61-90C-2042.8	250	1.1/4"	42.8	32	58.7	30.2	85	14	34	51	11.5	M 10 x 40	7/16"x 1.1/2"
SPSWF61-90C-2448.6	200	1.1/2"	48.6	38	69.9	35.7	95	16	38	56	13.5	M 12 x 45	1/2"x 1.3/4"
SPSWF61-90C-3261	200	2"	61.0	51	77.8	42.9	110	18	42	65	13.5	M 12 x 45	5/8"x 2"

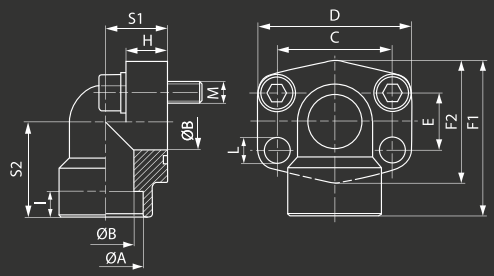
PN = Nominal pressure PB = Max. operating pressure

Single Piece Socket Weld Flange 90

SAE socket weld flange, angle 90



Pressure series:	6000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	Angle 90°
Design:	SAE socket weld flange
Mounting:	Screw bore hole
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	Ø A mm	Ø B mm	C mm	E mm	F1 mm	l mm	S1 mm	S2 mm	L mm	M metr.	M unc
SPSWF62-90C-0821.6	400	1/2"	21.6	13	40.5	18.2	60	10	20	37	9.0	M 8 x 30	5/16"x 1.1/4"
SPSWF62-90C-0817.5	400	1/2"	17.5	13	40.5	18.2	60	10	20	37	9.0	M 8 x 30	5/16"x 1.1/4"
SPSWF62-90C-1227.2	400	3/4"	27.2	19	50.8	23.8	70	12	28	43	11.0	M 10 x 35	3/8"x 1.1/2"
SPSWF62-90C-1635	400	1"	35.0	25	57.2	27.8	85	14	34	51	13.0	M 12 x 45	7/16"x 1.3/4"
SPSWF62-90C-2042.8	400	1.1/4"	42.8	32	66.7	31.8	95	16	38	56	*1	M 14 x 50	1/2"x 1.3/4"
SPSWF62-90C-2448.6	400	1.1/2"	48.6	38	79.4	36.5	110	18	42	65	17.5	M 16 x 50	5/8"x 2"
SPSWF62-90C-3261	400	2"	61.0	51	96.8	44.5	150	18	60	92	21.0	M 20 x 110	-

PN = Nominal pressure PB = Max. operating pressure
*1) = 15.0 for metric screws; 13.5 for UNC screws

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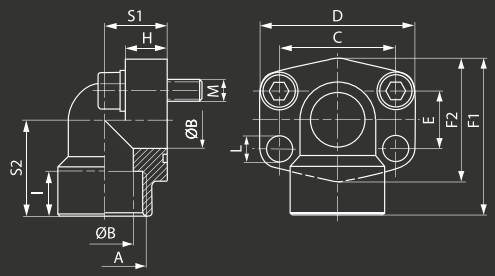
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Single Piece Flange Code 61 / BSPP Female 90

SAE screw-in flange, BSP, angle 90°



Pressure series:	3000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	Angle 90°
Design:	SAE screw-in flange
Mounting:	Screw bore hole
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M 0(metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	E mm	F1 mm	I mm	S1 mm	S2 mm	L mm	M metr.	M unc
SPF61-BPF-90C-0806	350	1/2"	G 3/8"–19	13	38.1	17.5	60	19	20	37	9.0	M 8 x 30	5/16"x 1.1/4"
SPF61-BPF-90C-0808	350	1/2"	G 1/2"–14	13	38.1	17.5	60	19	20	37	9.0	M 8 x 30	5/16"x 1.1/4"
SPF61-BPF-90C-1212	350	3/4"	G 3/4"–14	19	47.6	22.2	63	19	24	38	11.0	M 10 x 35	3/8"x 1.1/2"
SPF61-BPF-90C-1616	315	1"	G 1"–11	25	52.4	26.2	70	20	28	43	11.0	M 10 x 35	3/8"x 1.1/2"
SPF61-BPF-90C-2020	250	1.1/4"	G 1.1/4"–11	32	58.7	30.2	85	22	34	51	11.5	M 10 x 40	7/16"x 1.1/2"
SPF61-BPF-90C-2424	200	1.1/2"	G 1.1/2"–11	38	69.9	35.7	95	25	38	56	13.5	M 12 x 45	1/2"x 1.3/4"
SPF61-BPF-90C-3232	200	2"	G 2"–11	51	77.8	42.9	110	28	42	65	13.5	M 12 x 45	5/8"x 2"

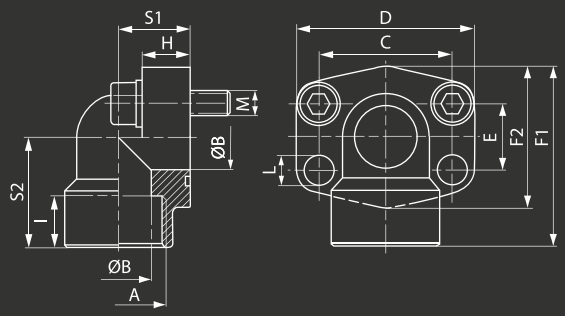
PN = Nominal pressure PB = Max. operating pressure

Single Piece Flange Code 62 / BSPP Female 90

SAE screw-in flange, BSP, angle 90°



Pressure series:	6000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	Angle 90°
Design:	SAE screw-in flange
Mounting:	Screw bore hole
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

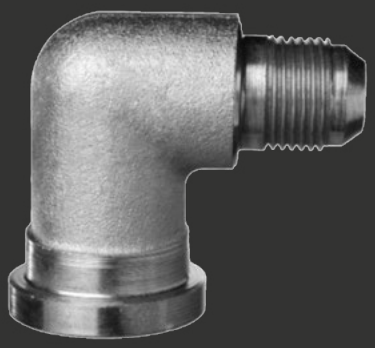
Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	E mm	F1 mm	I mm	S1 mm	S2 mm	L mm	M metr.	M unc
SPF62-BPF-90C-0808	400	1/2"	G 1/2"–14	13	40.5	18.2	60	19	20	37	9.0	M 8 x 30	5/16"x 1.1/4"
SPF62-BPF-90C-0806	400	1/2"	G 3/8"–19	13	40.5	18.2	60	19	20	37	9.0	M 8 x 30	5/16"x 1.1/4"
SPF62-BPF-90C-1212	400	3/4"	G 3/4"–14	19	50.8	23.8	70	20	28	43	11.0	M 10 x 35	3/8"x 1.1/2"
SPF62-BPF-90C-1616	400	1"	G 1"–11	25	57.2	27.8	85	22	34	51	13.0	M 12 x 45	7/16"x 1.3/4"
SPF62-BPF-90C-2020	400	1.1/4"	G 1.1/4"–11	32	66.7	31.8	95	25	38	56	*1	M 14 x 50	1/2"x 1.3/4"
SPF62-BPF-90C-2424	400	1.1/2"	G 1.1/2"–11	38	79.4	36.5	110	28	42	65	17.0	M 16 x 50	5/8"x 2"
SPF62-BPF-90C-3232	400	2"	G 2"–11	51	96.8	44.5	132	33	45	75	21.0	M 20 x 70	-

PN = Nominal pressure PB = Max. operating pressure
*1) = 15.0 for metric screws; 13.5 for UNC screws

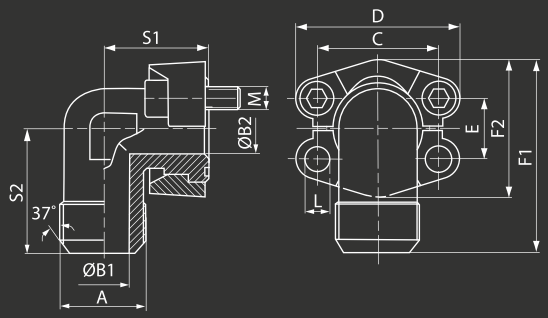
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Code 61 Flange / JIC Male 90

SAE flange adapter, forged



Pressure series:	3000 psi
Standard:	SAE J 518 C, ISO 6162
Supplementary design information:	Forged
Construction:	Angle 90°
Design:	SAE flange adapter
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Zinc Nickel



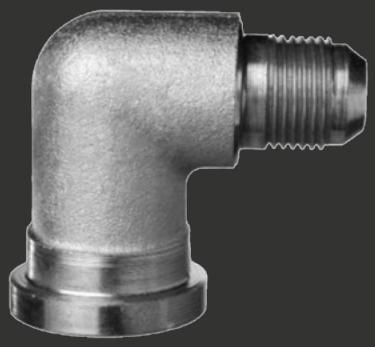
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	B1 mm	B2 mm	E mm	F1 mm	S1 mm	S2 mm	L mm	M metr.	M unc
F61-JIM-90C-0808-MC	350	1/2"	UNF 3/4"–16	9.9	13	17.5	60.8	38	38	8.7	M 8 x 25	5/16"x 1.1/4"
F61-JIM-90C-0810-MC	350	1/2"	UNF 7/8"–14	12.3	13	17.5	60.8	38	38	8.7	M 8 x 25	5/16"x 1.1/4"
F61-JIM-90C-1210-MC	350	3/4"	UNF 7/8"–14	12.3	19	22.2	70.9	42	45	10.7	M 10 x 30	3/8"x 1.1/2"
F61-JIM-90C-1212-MC	350	3/4"	UNF 1.1/16"–12	15.5	19	22.2	70.9	42	45	10.7	M 10 x 30	3/8"x 1.1/2"
F61-JIM-90C-1216-MC	350	3/4"	UN 1.5/16"–12	21.5	19	22.2	70.9	42	45	10.7	M 10 x 30	3/8"x 1.1/2"
F61-JIM-90C-1612-MC	315	1"	UNF 1.1/16"–12	15.5	24	26.2	79.2	45	50	10.7	M 10 x 30	3/8"x 1.1/2"
F61-JIM-90C-1616-MC	315	1"	UN 1.5/16"–12	21.5	24	26.2	79.2	45	50	10.7	M 10 x 30	3/8"x 1.1/2"
F61-JIM-90C-1620-MC	315	1"	UN 1.5/8"–12	27.5	24	26.2	79.2	45	50	10.7	M 10 x 30	3/8"x 1.1/2"
F61-JIM-90C-2016-MC	250	1.1/4"	UN 1.5/16"–12	21.5	31	30.2	85.3	50	59	*1	*2	7/16"x 1.1/2"
F61-JIM-90C-2020-MC	250	1.1/4"	UN 1.5/8"–12	27.5	31	30.2	85.3	50	59	*1	*2	7/16"x 1.1/2"
F61-JIM-90C-2420-MC	200	1.1/2"	UN 1.5/8"–12	27.5	38	35.7	117.1	76	76	13.5	M 12 x 35	1/2"x 1.1/2"
F61-JIM-90C-2424-MC	200	1.1/2"	UN 1.7/8"–12	33.0	38	35.7	117.1	76	76	13.5	M 12 x 35	1/2"x 1.1/2"

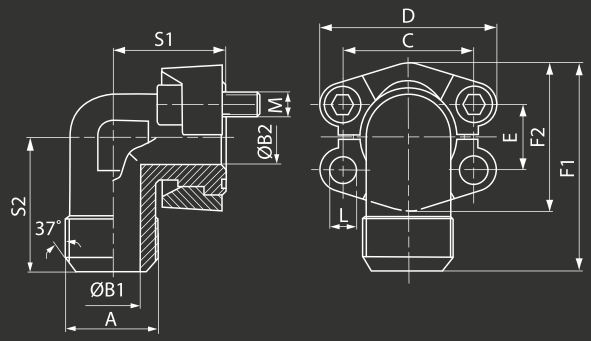
PN = Nominal pressure PB = Max. operating pressure
*1) = Choice of 10.5, 12.0 or 12.5

Code 62 Flange / JIC Male 90

SAE flange adapter, forged



Pressure series:	6000 psi
Standard:	SAE J 518 C, ISO 6162
Supplementary design information:	Forged
Construction:	Angle 90°
Design:	SAE flange adapter
Included in scope of supply:	Flange only
Material:	S355J2G3 (ST52.3)
Surface:	Zinc Nickel



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	B1 mm	B2 mm	E mm	F1 mm	S1 mm	S2 mm	L mm	M metr.	M unc
F62-JIM-90C-0808-MC	400	1/2"	UNF 3/4"–16	9.9	13	18.2	61.6	39	38	8.7	M 8 x 30	5/16"x 1.1/4"
F62-JIM-90C-0810-MC	400	1/2"	UNF 7/8"–14	12.3	13	18.2	61.6	39	38	8.7	M 8 x 35	5/16"x 1.1/4"
F62-JIM-90C-1210-MC	400	3/4"	UNF 7/8"–14	12.3	17	23.8	78.0	48	48	10.7	M 10 x 35	3/8"x 1.1/2"
F62-JIM-90C-1212-MC	400	3/4"	UNF 1.1/16"–12	15.5	17	23.8	78.0	48	48	10.7	M 10 x 35	3/8"x 1.1/2"
F62-JIM-90C-1216-MC	400	3/4"	UN 1.5/16"–12	21.5	17	23.8	78.0	48	48	10.7	M 10 x 35	3/8"x 1.1/2"
F62-JIM-90C-1612-MC	400	1"	UNF 1.1/16"–12	15.5	24	27.8	99.0	60	60	*1	M 12 x 45	7/16"x 1.3/4"
F62-JIM-90C-1616-MC	400	1"	UN 1.5/16"–12	21.5	24	27.8	99.0	60	60	*1	M 12 x 45	7/16"x 1.3/4"
F62-JIM-90C-1620-MC	400	1"	UN 1.5/8"–12	27.5	24	27.8	99.0	60	60	*1	M 12 x 45	7/16"x 1.1/2"
F62-JIM-90C-2016-MC	400	1.1/4"	UN 1.5/16"–12	21.5	30	31.8	115.5	68	68	*2	M 14 x 50	1/2"x 1.3/4"
F62-JIM-90C-2020-MC	400	1.1/4"	UN 1.5/8"–12	27.5	30	31.8	115.5	68	68	*2	M 14 x 50	1/2"x 1.3/4"
F62-JIM-90C-2024-MC	400	1.1/4"	UN 1.7/8"–12	33.0	30	31.8	115.5	68	68	*2	M 14 x 50	1/2"x 1.3/4"
F62-JIM-90C-2420-MC	400	1.1/2"	UN 1.5/8"–12	27.5	32	36.5	133.0	76	76	17.0	M 16 x 55	5/8"x 2"
F62-JIM-90C-2424-MC	400	1.1/2"	UN 1.7/8"–12	33.0	32	36.5	133.0	76	76	17.0	M 16 x 55	5/8"x 2"

PN = Nominal pressure PB = Max. operating pressure
*1) = Choice of 12.0 or 12.5

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07





QUICK RELEASE COUPLERS & ACCESSORY VALVES

Quick release couplers enable safe and efficient connection and disconnection of hydraulic lines. This section includes ISO-standard couplings for agricultural, industrial, and high-pressure applications, including flat-face, poppet, screw-to-connect, and brake couplings.

Accessory valves such as ball valves and system isolation components are also included. These products are used across mobile hydraulics, industrial systems, agricultural machinery, and transport applications where safe fluid control is required.

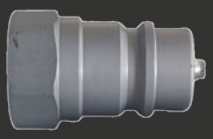
Selected components are finished with MotusCoat™ for improved durability and corrosion resistance.

QUICK RELEASE COUPLERS & ACCESSORY VALVES

175 Series ISO 7241 - A Coupling – Female
454



175 Series ISO 7241 - A Coupling – Male
455



75 Series ISO 7241 - A Coupling – Female
456



75 Series ISO 7241 - A Coupling – Male
457



71 Series ISO 7241 - A Push - Pull Coupling – Female
458



126 Series ISO 7241 - A Push - Pull Coupling – Female
459



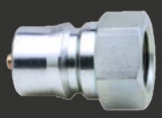
278 Series 3CFPV Push - Pull Coupling – Female
460



82 Series ISO 7241 - B Coupling – Female
461



82 Series ISO 7241 - B Coupling – Male
462



96 Series ISO 16028 Flat Face Coupling – Female
463



96 Series ISO 16028 Flat Face Coupling – Male
464



295 Series ISO 16028 Flat Face Coupling – Female
465



296 Series ISO 16028 Flat Face Coupling – Male
466



297 Series ISO 16028 Threaded Flat Face Coupling – Female
467



297 Series ISO 16028 Threaded Flat Face Coupling – Male
468



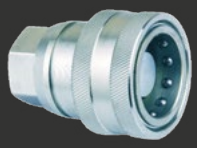
87 Series ISO 14541 Screw Coupling – Female
469



87 Series ISO 14541 Screw Coupling – Male
470



65 Series ISO 5676 Brake Coupling – Female
471



65 Series ISO 5676 Brake Coupling – Male
472



BKH Series – Two-Way High Pressure Ball Valve (Steel)
473

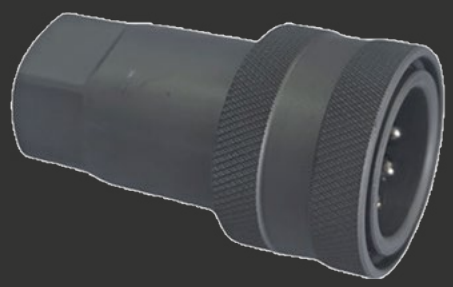


Quick Release Coupler Dust Covers
474

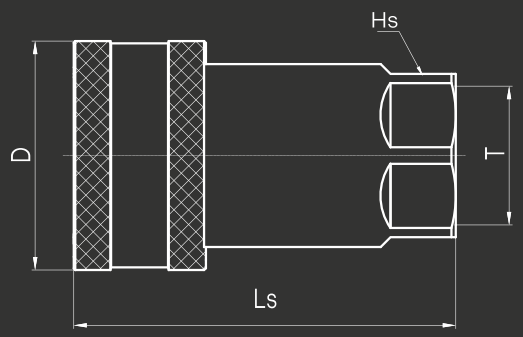


175 Series ISO 7241 - A Coupling – Female

Agri NV | ZnNi Plated | Poppet Valve | Steel



Standard:	ISO 7241-1 series A
Material:	Steel
Surface Treatment:	Zinc-Nickel (ZnNi) – MATE 1000
Valve Type:	Poppet
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Sleeve retraction
Disconnection:	Sleeve retraction
Interchange:	Faster agri, faster NV, faster ANV
Applications:	Agricultural machinery Tractors and attachments Loaders and implements Industrial hydraulic circuits Mobile equipment



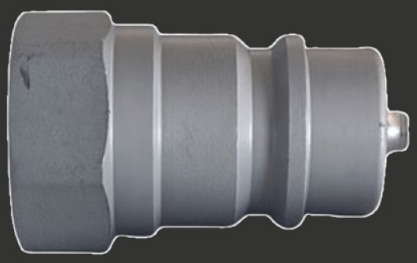
Part NO. Female	Body size	D mm	Ls mm	Hs mm	T	Dash size	Max W.P Female (Bar)
QAF175-04-MC	1/4"	25	47	S19	1/4 BSPF	-4	350
QAF175-06-MC	3/8"	31	57	S22	3/8 BSPF	-6	315
QAF175-08-MC	1/2"	38	66	S27	1/2 BSPF	-8	250
QAF175-12-MC	3/4"	48	82.5	S34	3/4 BSPF	-12	250
QAF175-16-MC	1"	54	97	S41	1 BSPF	-16	230
QAF175-20-MC	1.1/4"	70	117	S50	1.1/4 BSPF	-20	230

Note: Other seal materials and configurations available on request.

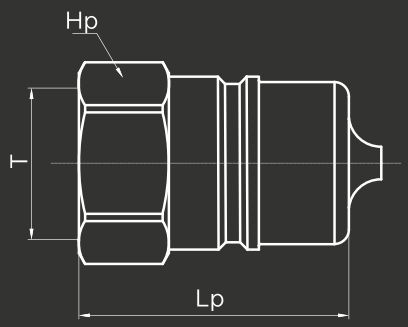
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175 Series ISO 7241 - A Coupling – Male

Agri NV | ZnNi Plated | Poppet Valve | Steel



Standard:	ISO 7241-1 series A
Material:	Steel
Surface Treatment:	Zinc-Nickel (ZnNi) – MATE 1000
Valve Type:	Poppet
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Sleeve retraction
Disconnection:	Sleeve retraction
Interchange:	Faster agri, faster NV, faster ANV
Applications:	Agricultural machinery Tractors and attachments Loaders and implements Industrial hydraulic circuits Mobile equipment



Part NO. Male	Body size	Lp mm	Hp mm	T	Dash size	Max W.P Male (Bar)
QAM175-04-MC	1/4"	35	S19	1/4 BSPF	-4	350
QAM175-06-MC	3/8"	39	S22	3/8 BSPF	-6	315
QAM175-08-MC	1/2"	45	S27	1/2 BSPF	-8	250
QAM175-12-MC	3/4"	55	S34	3/4 BSPF	-12	250
QAM175-16-MC	1"	63	S41	1 BSPF	-16	230
QAM175-20-MC	1.1/4"	75	S50	1.1/4 BSPF	-20	230

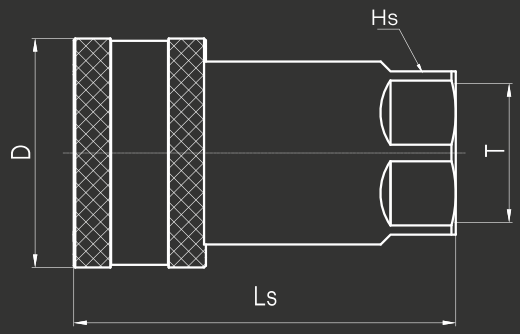
Note: Other seal materials and configurations available on request.

75 Series ISO 7241 - A Coupling – Female

ANV | Zinc plated | Poppet Valve | Steel



Standard:	ISO 7241-1 series A
Material:	Steel
Surface Treatment:	Zinc plated (CRIII) – MATE 500
Valve Type:	Poppet
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Sleeve retraction
Disconnection:	Sleeve retraction
Interchange:	Faster agri Faster NV Faster ANV Parker 6600 series Stucchi BIR series Stucchi IRV series



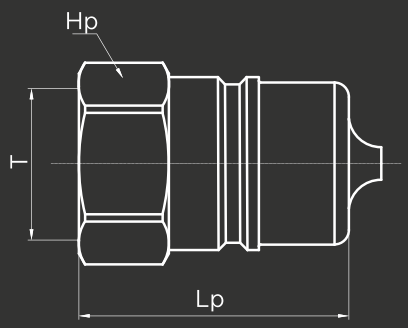
Part No. Female	Body Size	D mm	Ls mm	Hs mm	T	Dash Size	Max W.P Female (Bar)
QAF75-04	1/4"	25	47	S19	1/4 BSPF	-4	350
QAF75-06	3/8"	31	57	S22	3/8 BSPF	-6	315
QAF75-08	1/2"	38	66	S27	1/2 BSPF	-8	250
QAF75-12	3/4"	48	82.5	S34	3/4 BSPF	-12	250
QAF75-16	1"	54	97	S41	1 BSPF	-16	230
QAF75-20	1.1/4"	70	117	S50	1.1/4 BSPF	-20	230

75 Series ISO 7241 - A Coupling – Male

ANV | Zinc plated | Poppet Valve | Steel



Standard:	ISO 7241-1 series A
Material:	Steel
Surface Treatment:	Zinc plated (CRIII) – MATE 500
Valve Type:	Poppet
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Sleeve retraction
Disconnection:	Sleeve retraction
Interchange:	Faster agri Faster NV Faster ANV Parker 6600 series Stucchi BIR series Stucchi IRV series



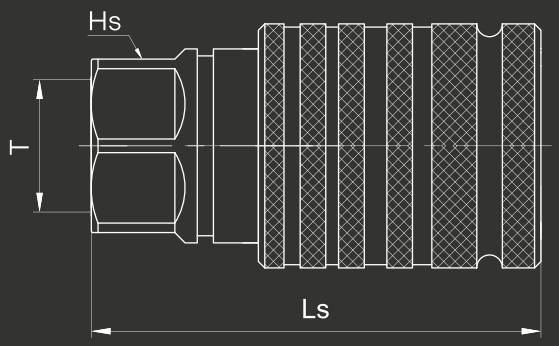
Part No. Male	Body Size	Lp mm	Hp mm	T	Dash Size	Max W.P Male (Bar)
QAM75-04	1/4"	35	S19	1/4 BSPF	-4	350
QAM75-06	3/8"	39	S22	3/8 BSPF	-6	315
QAM75-08	1/2"	45	S27	1/2 BSPF	-8	250
QAM75-12	3/4"	55	S34	3/4 BSPF	-12	250
QAM75-16	1"	63	S41	1 BSPF	-16	230
QAM75-20	1.1/4"	75	S50	1.1/4 BSPF	-20	230

71 Series ISO 7241 - A Push - Pull Coupling – Female

Panel Mount Push - Pull | Zinc plated (CRIII) – MATE 500 | Ball Valve | Steel



Standard:	ISO 7241-1 series A
Material:	Steel
Surface Treatment:	Zinc plated (CRIII) – MATE 500
Valve Type:	Ball
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Push to connect
Disconnection:	Pull to disconnect
Interchange:	Faster PS series



Part No. Female	Body Size	Ls mm	Hs mm	T	Dash Size	Max W.P Female (Bar)
QAF71-08	1/2"	66	S27	1/2 BSPF	-8	250

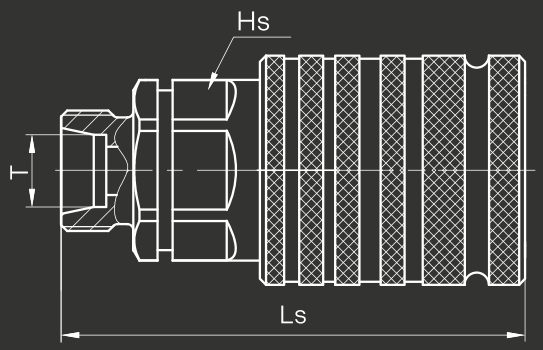
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126 Series ISO 7241 - A Push - Pull Coupling – Female

CNV / CPV / PV | Zinc-Nickel (ZnNi) – MATE 1000 | Poppet Valve | Steel



Standard:	ISO 7241-1 series A
Material:	Steel
Surface Treatment:	Zinc-Nickel (ZnNi) – MATE 1000
Valve Type:	Poppet
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Push to connect
Disconnection:	Pull to disconnect
Interchange:	Faster CNV Faster CPV Faster PV (Zinc-Nickel series)



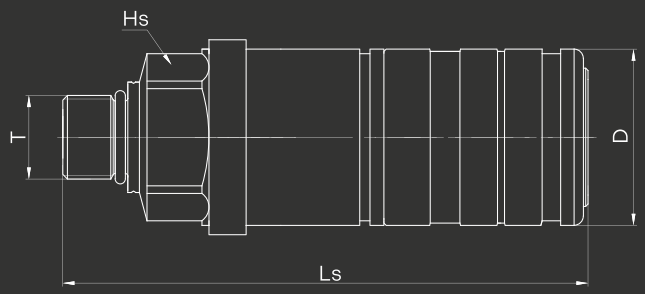
Part No. Female	Body Size	Ls mm	Hs mm	Thread	Dash Size	Max W.P Female (Bar)
QAF126-08-1815-MC	1/2"	62.3	S27	M18x1.5 12L	-8	250
QAF126-08-2215-MC	1/2"	63.3	S27	M22x1.5 15L	-8	250
QAF126-08-MC	1/2"	66	S27	1/2 BSPF	-8	250

278 Series 3CFPV Push - Pull Coupling – Female

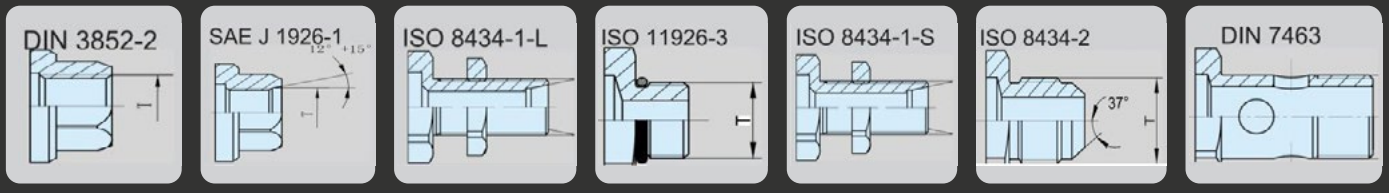
Valve Port Installation | Zinc plated (CRIII) – MATE 500 | Poppet Valve | Steel



Standard:	ISO 7241-1 series A
Material:	Steel
Surface Treatment:	Zinc plated (CRIII) – MATE 500
Valve Type:	Poppet
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Max Flow Rate:	200 L / min
Connection:	Sleeve retraction
Disconnection:	Sleeve retraction
Interchange:	Faster 3CFHF Parker RSD DNP PPK3 Stauff UX Voswinkel UX



Part No.	Body Size	Standard Type	D mm	Hs mm	Ls mm	T	Dash Size	Max W.P Female (Bar)
QAF278-08-08BPF	1/2"	DIN 3852-2	38	32	107.2	1/2"BSPP	-8	250
QAF278-08-08NTF	1/2"	DIN 3852-2	38	32	107.2	1/2"NPT	-8	250
QAF278-08-08UNF	1/2"	SAE J 1926-1	38	32	107.2	3/4"-16UNF-2B	-8	250
QAF278-08-10UNF	1/2"	SAE J 1926-1	38	32	107.2	7/8"-14UNF-2B	-8	250
QAF278-08-1815MBM(12L)	1/2"	ISO 8434-1 - L	38	32	113.2	M18x1.5-12L	-8	250
QAF278-08-2015MBM(12S)	1/2"	ISO 8434-1 - S	38	32	113.2	M20x1.5-12S	-8	250
QAF278-08-2215MBM(15L)	1/2"	ISO 8434-1 - L	38	32	113.2	M22x1.5-15L	-8	250
QAF278-08-2415MBM(16S)	1/2"	ISO 8434-1 - S	38	32	113.2	M24x1.5-16S	-8	250
QAF278-08-08UNM	1/2"	ISO 11926-3	38	32	131.5	3/4"-16UNF-2A	-8	250
QAF278-08-10UNM	1/2"	ISO 11926-3	38	32	133.5	7/8"-14UNF-2A	-8	250
QAF278-08-08JIM	1/2"	ISO 8434-2	38	32	133.5	3/4"-16UNF-2A	-8	250
QAF278-08-2215MBB	1/2"	DIN 7463	38	32	133.5	M22x1.5	-8	250



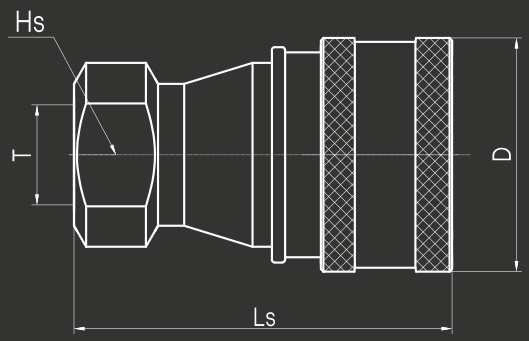
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82 Series ISO 7241 - B Coupling – Female

Industrial Series | Zinc Nickel (ZnNi) – MATE 1000 | Poppet Valve | Steel



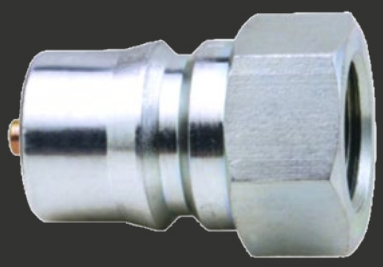
Standard:	ISO 7241-1 series B
Material:	Steel
Surface Treatment:	Zinc Nickel (ZnNi) – MATE 1000
Valve Type:	Poppet
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Sleeve retraction
Disconnection:	Sleeve retraction
Interchange:	DNP PBV1 series Eaton FD54 Faster HNV Parker 60 series Stucchi IBR series



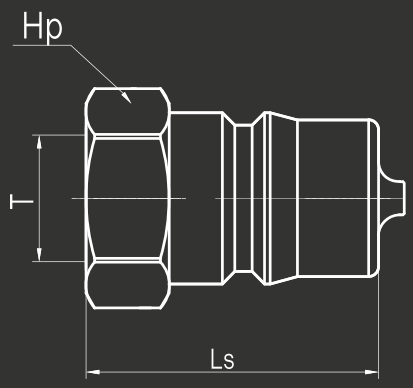
Part No. Female	Body Size	D mm	Ls mm	Hs mm	T	Dash Size	Max W.P Female (Bar)
QBF82-04-MC	1/4"	28	58	S19	1/4 BSPF	-4	350
QBF82-06-MC	3/8"	35	65	S21	3/8 BSPF	-6	315
QBF82-08-MC	1/2"	44.5	72	S29	1/2 BSPF	-8	250
QBF82-12-MC	3/4"	55	88	S35	3/4 BSPF	-12	230
QBF82-16-MC	1"	65	102	S41	1 BSPF	-16	200

82 Series ISO 7241 - B Coupling – Male

Industrial Series | Zinc Nickel (ZnNi) – MATE 1000 | Poppet Valve | Steel



Standard:	ISO 7241-1 series B
Material:	Steel
Surface Treatment:	Zinc Nickel (ZnNi) – MATE 1000
Valve Type:	Poppet
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Sleeve retraction
Disconnection:	Sleeve retraction
Interchange:	DNP PBV1 series Eaton FD54 Faster HNV Parker 60 series Stucchi IBR series



Part No. Male	Body Size	Lp mm	Hp mm	T	Dash Size	Max W.P Male (Bar)
QBM82-04-MC	1/4"	36.5	S17	1/4 BSPF	-4	350
QBM82-06-MC	3/8"	40	S21	3/8 BSPF	-6	315
QBM82-08-MC	1/2"	44	S29	1/2 BSPF	-8	250
QBM82-12-MC	3/4"	52.5	S35	3/4 BSPF	-12	230
QBM82-16-MC	1"	62	S42	1 BSPF	-16	200

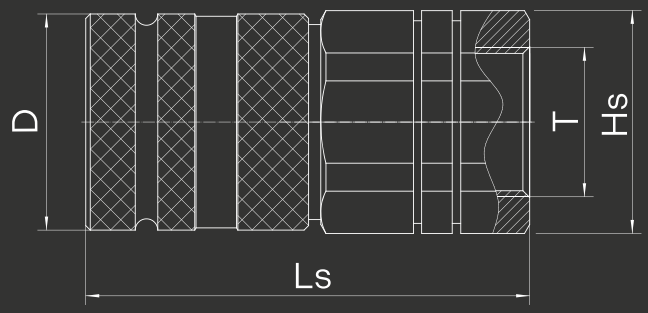
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96 Series ISO 16028 Flat Face Coupling – Female

FFH | Zinc-Nickel (ZnNi) – MATE 1000 | Flat Valve | Steel



Standard:	ISO 16028
Material:	Steel
Surface Treatment:	Zinc-Nickel (ZnNi) – MATE 1000
Valve Type:	Flat face
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Push to connect
Disconnection:	Sleeve retraction
Interchange:	Stucchi A series Faster FFH series DNP PLT4 series Parker FEM series



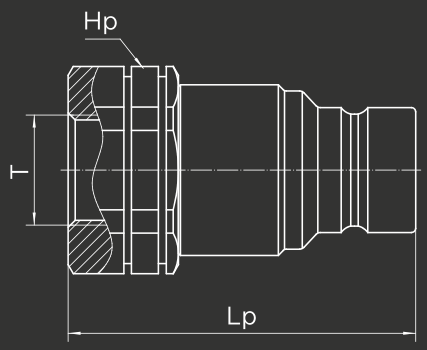
Part No. Female	Body Size	D mm	Ls mm	Hs mm	T	Dash Size	Max W.P Female (Bar)
QFF96-0404-MC	1/4"	28	57.2	27	1/4 BSPF	-4	420
QFF96-0606-MC	3/8"	32	69	30	3/8 BSPF	-6	350
QFF96-0806-MC	1/2"	32	70	30	3/8 BSPF	-8	330
QFF96-0808-MC	1/2"	38	77.5	36	1/2 BSPF	-8	330
QFF96-1208-MC	3/4"	38	84	36	1/2 BSPF	-12	330
QFF96-1212-MC	3/4"	48	96.8	46	3/4 BSPF	-12	330
QFF96-1612-MC	1"	48	98.8	46	3/4 BSPF	-16	300
QFF96-1616-MC	1"	55	104.5	55	1 BSPF	-16	300

96 Series ISO 16028 Flat Face Coupling – Male

FFH | Zinc-Nickel (ZnNi) – MATE 1000 | Flat Valve | Steel



Standard:	ISO 16028
Material:	Steel
Surface Treatment:	Zinc-Nickel (ZnNi) – MATE 1000
Valve Type:	Flat face
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Push to connect
Disconnection:	Sleeve retraction
Interchange:	Stucchi A series Faster FFH series DNP PLT4 series Parker FEM series



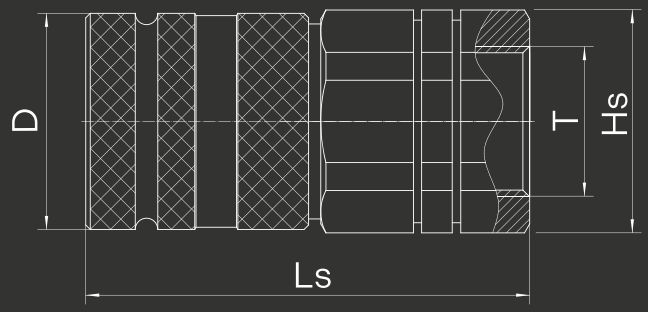
Part No. Male	Body Size	Lp mm	Hp mm	T	Dash Size	Max W.P Male (Bar)
QFM96-0404-MC	1/4"	50	27	1/4 BSPF	-4	420
QFM96-0606-MC	3/8"	59.5	30	3/8 BSPF	-6	350
QFM96-0608-MC	3/8"	62.5	30	1/2 BSPF	-8	350
QFM96-0808-MC	1/2"	68	36	1/2 BSPF	-8	350
QFM96-0812-MC	1/2"	70.5	36	3/4 BSPF	-12	350
QFM96-1212-MC	3/4"	83	46	3/4 BSPF	-12	350
QFM96-1216-MC	3/4"	83	46	1 BSPF	-16	350
QFM96-1616-MC	1"	89	55	1 BSPF	-16	350

295 Series ISO 16028 Flat Face Coupling – Female

3FFH | Zinc-Nickel (ZnNi) – MATE 1000 | Flat Valve | Connection Under Pressure | Steel



Standard:	ISO 16028
Material:	Steel
Surface Treatment:	Zinc-Nickel (ZnNi) – MATE 1000
Valve Type:	Flat
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Push to connect
Disconnection:	Sleeve retraction
Connection Under Pressure:	Allowed up to W.P
Interchange:	Faster 3FFH series Voswinkel FH series Stucchi A - HD series Parker FEM series



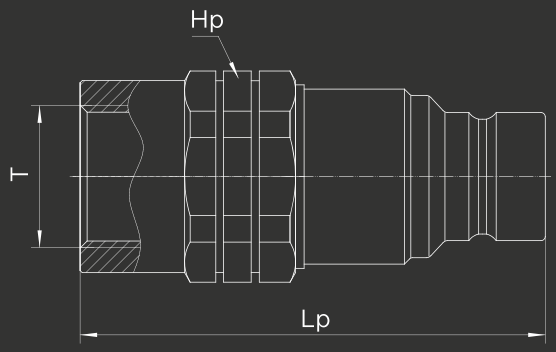
Part No. Female	Body Size	D mm	Ls mm	Hs mm	T	Dash Size	Max W.P Female (Bar)
QFF295-0606-MC	3/8″	32	69	30	3/8 BSPF	-6	350
QFF295-0608-MC	3/8″	32	70	30	1/2 BSPF	-6	350
QFF295-0808-MC	1/2″	38	77.5	36	1/2 BSPF	-8	330
QFF295-0812-MC	1/2″	38	84	36	3/4 BSPF	-8	330
QFF295-1212-MC	3/4″	48	95.8	46	3/4 BSPF	-12	300
QFF295-1216-MC	3/4″	48	98.8	46	1 BSPF	-12	300
QFF295-1616-MC	1″	55	104.5	55	1 BSPF	-16	300

296 Series ISO 16028 Flat Face Coupling – Male

APM | Zinc-Nickel (ZnNi) – MATE 1000 | Flat Valve | Connection Under Pressure | Steel



Standard:	ISO 16028
Material:	Steel
Surface Treatment:	Zinc-Nickel (ZnNi) – MATE 1000
Valve Type:	Flat
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Push to connect
Disconnection:	Sleeve retraction
Connection Under Pressure:	Allowed up to W.P
Interchange:	Stucchi APM series Parker FEC series Faster 3FFH series Faster 3FFI series DNP PLK4 series Voswinkel F series



Part No. Male	Body Size	Lp mm	Hp mm	T	Dash Size	Max W.P Male (Bar)
QFM296-0606-MC	3/8″	80	27	3/8 BSPF	-6	350
QFM296-0608-MC	3/8″	82.5	27	1/2 BSPF	-6	350
QFM296-0808-MC	1/2″	91	36	1/2 BSPF	-8	330
QFM296-0812-MC	1/2″	93.5	36	3/4 BSPF	-8	330
QFM296-1212-MC	3/4″	109	46	3/4 BSPF	-12	300
QFM296-1216-MC	3/4″	109	46	1 BSPF	-12	300
QFM296-1616-MC	1″	122.5	55	1 BSPF	-16	300

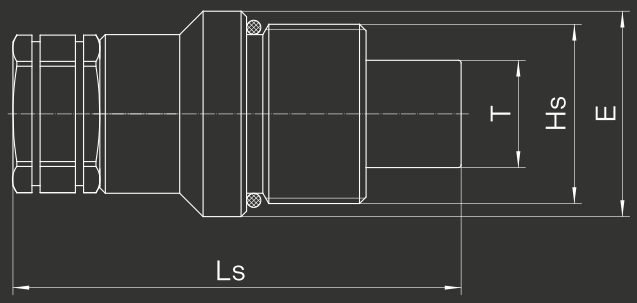
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297 Series ISO 16028 Threaded Flat Face Coupling – Female

VEP | Zinc-Nickel (ZnNi) – MATE 1000 | Flat Valve | Screw to connect | Steel



Standard:	ISO 16028
Material:	Steel
Surface Treatment:	Zinc-Nickel (ZnNi) – MATE 1000
Valve Type:	Flat
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Screw to connect
Disconnection:	Unscrew to disconnect
Connection Under Pressure:	Allowed up to W.P
Interchange:	Stucchi VEP - P series Parker FET series Faster FHV series Holmbury HFT series DNP PST4 series Voswinkel FT series



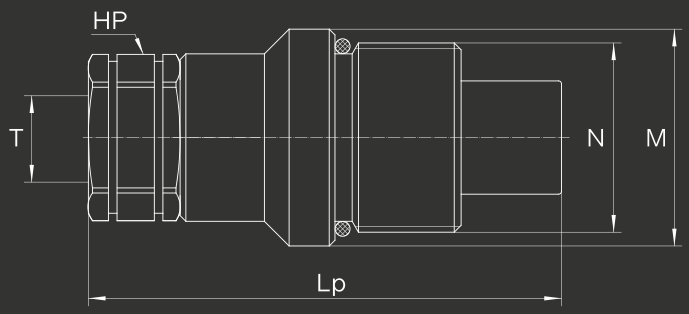
Part No. Female	Body Size	E mm	Hs mm	Hq mm	Ls mm	T	Dash Size	Max W.P Female (Bar)
QFSF297-0606-MC	3/8"	41.8	30	38	70	3/8 BSPF	-6	330
QFSF297-0608-MC	3/8"	41.8	30	38	71.5	1/2 BSPF	-6	330
QFSF297-0808-MC	1/2"	49.8	36	46	78	1/2 BSPF	-8	330
QFSF297-0812UNF-MC	1/2"	49.8	36	46	85	1.1/16 UNOF	-8	330
QFSF297-1216-MC	3/4"	58.8	46	55	99	1 BSPF	-12	330
QFSF297-1212UNF-MC	3/4"	58.8	46	55	99	1.1/16 UNOF	-12	330
QFSF297-1620-MC	1"	70	55	65	106	1.1/4 BSPF	-16	300
QFSF297-1616UNF-MC	1"	70	55	65	105	1.5/16 UNOF	-16	300

297 Series ISO 16028 Threaded Flat Face Coupling – Male

VEP | Zinc-Nickel (ZnNi) – MATE 1000 | Flat Valve | Screw to connect | Steel



Standard:	ISO 16028
Material:	Steel
Surface Treatment:	Zinc-Nickel (ZnNi) – MATE 1000
Valve Type:	Flat
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Screw to connect
Disconnection:	Unscrew to disconnect
Connection Under Pressure:	Allowed up to W.P
Interchange:	Stucchi VEP - P series Parker FET series Faster FHV series Holmbury HFT series DNP PST4 series Voswinkel FT series

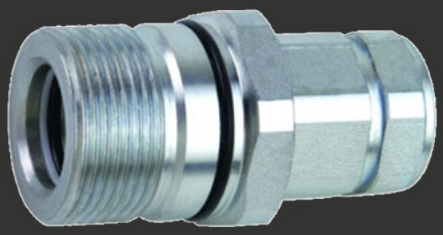


Part No. Male	Body Size	N	M mm	Hp mm	Lp mm	T	Dash Size	Max W.P Male (Bar)
QFSM297-0606-MC	3/8″	M33x2	37.8	27	82.5	3/8 BSPF	-6	550
QFSM297-0608-MC	3/8″	M33x2	37.8	27	86	1/2 BSPF	-6	550
QFSM297-0808-MC	1/2″	M40x3	45.8	36	97	1/2 BSPF	-8	550
QFSM297-0812UNF-MC	1/2″	M40x3	45.8	36	99	1.1/16 UNOF	-8	550
QFSM297-1212UNF-MC	3/4″	M50x3	54.8	46	114	1.1/16 UNOF	-12	500
QFSM297-1216-MC	3/4″	M50x3	54.8	46	114	1 BSPF	-12	500
QFSM297-1616UNF-MC	1″	M58x3	64.5	55	123.5	1.5/16 UNOF	-16	470
QFSM297-1620-MC	1″	M58x3	64.5	55	123.5	1.1/4 BSPF	-16	470

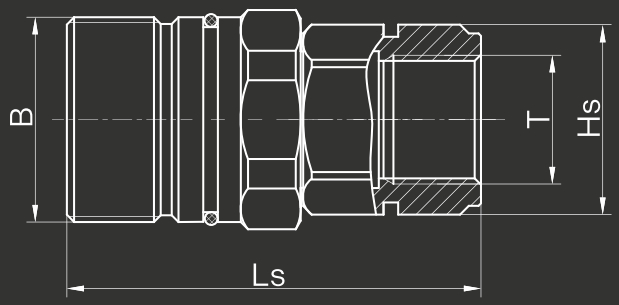
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87 Series ISO 14541 Screw Coupling – Female

CVV | Zinc-Nickel (ZnNi) – MATE 1000 | Poppet Valve | Screw to connect | Steel



Standard:	ISO 14541
Material:	Steel
Surface Treatment:	Zinc-Nickel (ZnNi) – MATE 1000
Valve Type:	Poppet
Seals:	NBR, FKM (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Screw to connect
Disconnection:	Unscrew to disconnect
Connection Under Pressure:	Allowed residual
Interchange:	Stucchi VD series Dixon CVV series Faster CVV Gromelle 626 - A series DNP PVV3 series



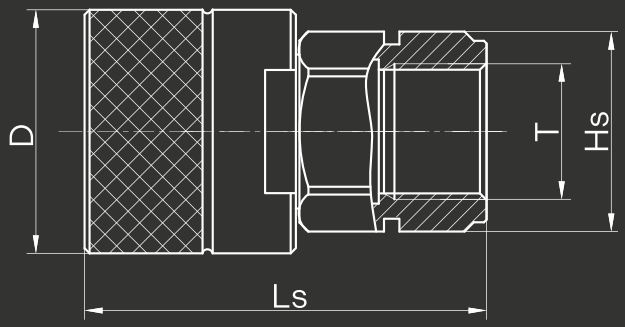
Part No. Female	Body Size	Lp mm	B mm	Hs mm	T	Dash Size	Max W.P Female (Bar)
QSF87-04-MC	1/4"	69.5	13	19	1/4 BSPF	-4	370
QSF87-06-MC	3/8"	69.5	17.5	24	3/8 BSPF	-6	300
QSF87-08-MC	1/2"	71.5	22.1	30	1/2 BSPF	-8	300
QSF87-12-MC	3/4"	85	28.1	36	3/4 BSPF	-12	270
QSF87-16-MC	1"	100	35	41	1 BSPF	-16	270

87 Series ISO 14541 Screw Coupling – Male

CVV | Zinc-Nickel (ZnNi) – MATE 1000 | Poppet Valve | Screw to connect | Steel



Standard:	ISO 14541
Material:	Steel
Surface Treatment:	Zinc-Nickel (ZnNi) – MATE 1000
Valve Type:	Poppet
Seals:	NBR, FKM (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Screw to connect
Disconnection:	Unscrew to disconnect
Connection Under Pressure:	Allowed residual
Interchange:	Stucchi VD series Dixon CVV series Faster CVV Gromelle 626 - A series DNP PVV3 series

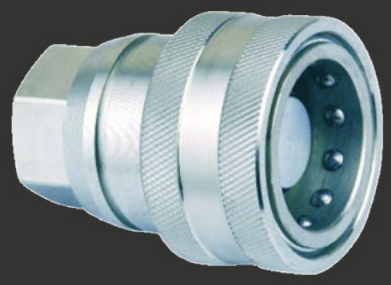


Part No. Male	Body Size	Ls mm	D mm	Hs mm	T	Dash Size	Max W.P Male (Bar)
QSM87-04-MC	1/4″	62	30	19	1/4 BSPF	-4	370
QSM87-06-MC	3/8″	64	35	24	3/8 BSPF	-6	300
QSM87-08-MC	1/2″	67	42	30	1/2 BSPF	-8	300
QSM87-12-MC	3/4″	78	48	48	3/4 BSPF	-12	270
QSM87-16-MC	1″	87	55	55	1 BSPF	-16	270

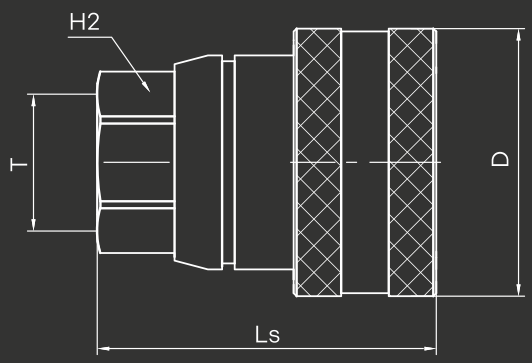
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65 Series ISO 5676 Brake Coupling – Female

IFR | Zinc Nickel (ZnNi) – MATE 1000 | Flat Valve | Steel



Standard:	ISO 5676
Material:	Steel
Surface Treatment:	Zinc Nickel (ZnNi) – MATE 1000
Valve Type:	Flat
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Sleeve retraction
Disconnection:	Sleeve retraction
Connection Under Pressure:	Not allowed
Interchange:	Faster VF series Voswinkel BP series Stucchi IFR series DNP PFT series Gromelle 609 - A series Holmbury TB series



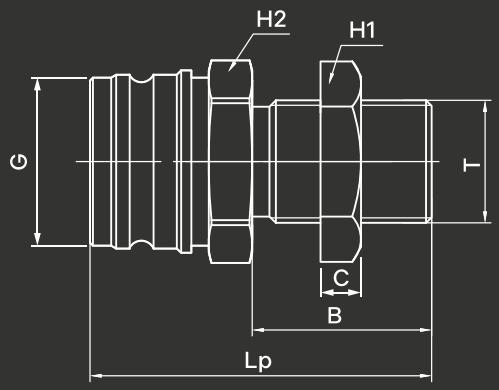
Part No. Female	Body Size	Ls mm	D mm	H2 mm	T	Dash Size	Max W.P Female (Bar)
TBF-06-1815-MC	3/8″	59	45	27	M18x1.5	-6	150
TBF-06-2215-MC	3/8″	59	45	27	M22x1.5	-6	150
TBF-06-06-MC	3/8″	57	45	27	3/8 BSPF	-6	150
TBF-06-08-MC	3/8″	57	45	27	1/2 BSPF	-6	150

65 Series ISO 5676 Brake Coupling – Male

IFR | Zinc Nickel (ZnNi) – MATE 1000 | Flat Valve | Steel



Standard:	ISO 5676
Material:	Steel
Surface Treatment:	Zinc Nickel (ZnNi) – MATE 1000
Valve Type:	Flat
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Connection:	Sleeve retraction
Disconnection:	Sleeve retraction
Connection Under Pressure:	Not allowed
Interchange:	Faster VF series Voswinkel BP series Stucchi IFR series DNP PFT series Gromelle 609 - A series Holmbury TB series



Part No. Male	Body Size	Lp mm	B mm	G mm	C mm	H1 mm	H2 mm	T	Dash Size	Max W.P Male (Bar)
TBM-06-1815-MC	3/8″	51	23	30	6	27	32	M18x1.5	-6	150
TBM-06-2215-MC	3/8″	51	23	30	7	30	32	M22x1.5	-6	150
TBM-06-08-MC	3/8″	62	34	30	8	30	32	1/2 BSPF	-6	150
TBM-06-06-MC	3/8″	62	34	30	8	30	32	3/8 BSPF	-6	150

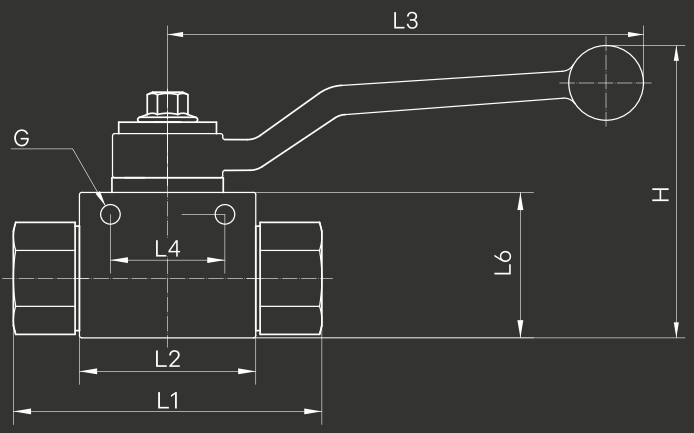
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BKH Series – Two-Way High Pressure Ball Valve (Steel)

Carbon Steel | Handle Operated | BSP Thread | Up to 500 Bar



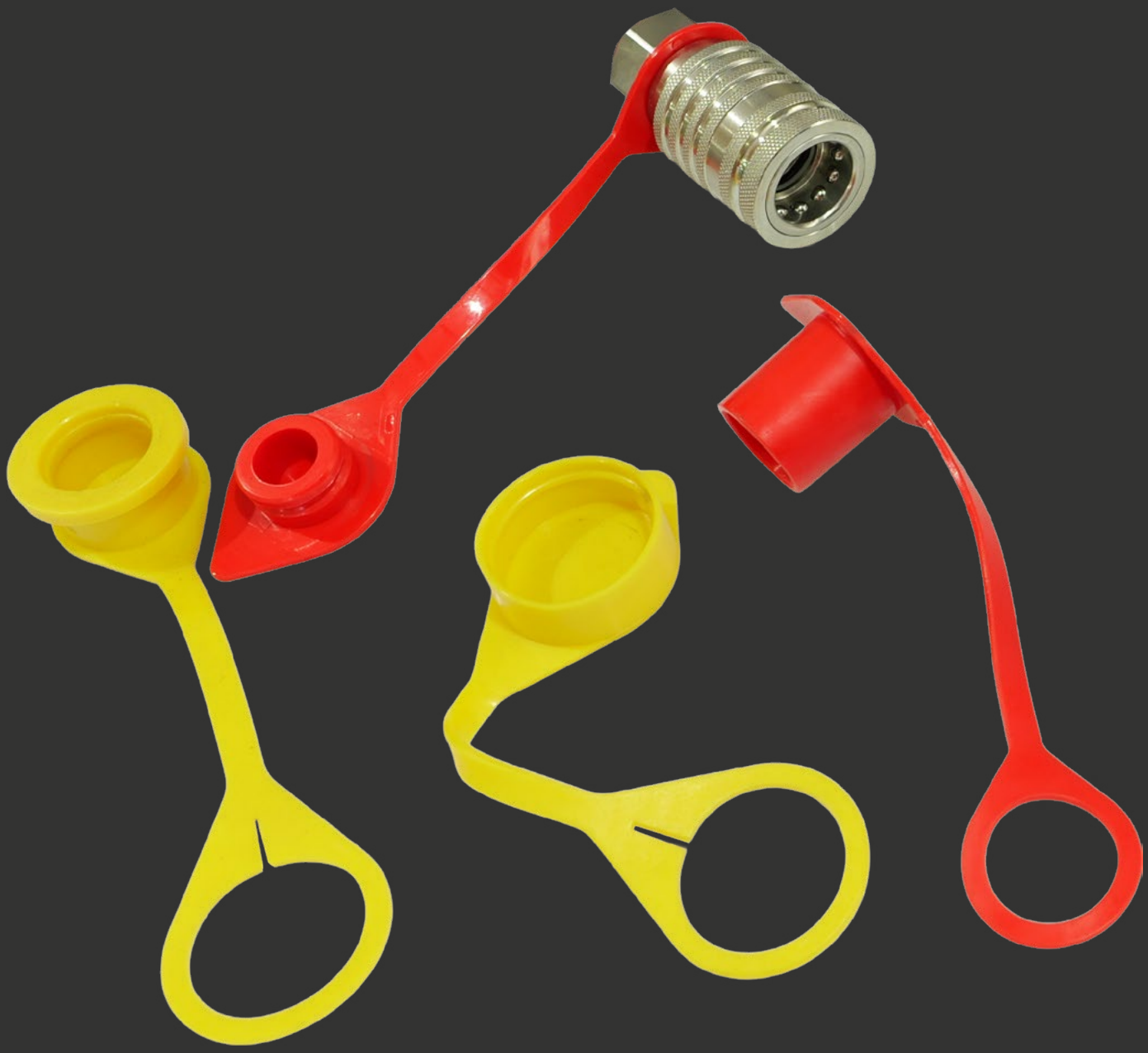
Material:	Steel
Seals:	NBR (custom options available)
Working Temperature:	-25 °C to +125 °C
Surface Treatment:	Zinc plated
Ball Seals:	POM / PEEK
Connection:	Handle
Disconnection:	Handle
Interchange:	Hydac KHB series Hydac KHM series Pister BKH series



Part No.	Body Size	DN	L1 mm	L2 mm	L3 mm	H mm	G mm	L4 mm	L5 mm Width	L6 mm	T	Max Working Pressure (Bar)
BVB-MH-02	1/8″	4	69	40	154.1	73	4.5	26	26	33	1/8 BSPF	500
BVB-MH-04	1/4″	6	69	40	145	71	4.5	26	26	33	1/4 BSPF	500
BVB-MH-06	3/8″	10	71	42	145	76.5	6.5	32	33	38	3/8 BSPF	500
BVB-MH-08	1/2″	13	82	48	161	81	6.5	37.5	36	40	1/2 BSPF	500
BVB-MH-12	3/4″	20	96	62	218	112	6.5	49	49	57	3/4 BSPF	315

Quick Release Coupler Dust Covers

Protective caps for Motus hydraulic quick couplings, plastic and aluminium options



Quick Release Coupler Dust Covers

Protective caps for Motus hydraulic quick couplings, plastic and aluminium options

Identification	Fits Series	Material	Colours Available
QAC-04	QAM SERIES 175, 75 ISO 7241 - A Fits Male	Plastic	Black, Blue, Green, Red, Yellow, Purple
QAC-06			
QAC-08			
QAC-12			
QAC-16			
QAP-04	QAF SERIES 175, 75, 71, 126, 278 ISO 7241 - A Fits Female	Plastic	Black, Blue, Green, Red, Yellow, Purple
QAP-06			
QAP-08			
QAP-12			
QAP-16			
QFC-04	QFM SERIES 96, 295 ISO 16028 Fits Male	Plastic	Black, Yellow
QFC-06			
QFC-08			
QFC-12			
QFC-16			
QFP-04	QFF SERIES 96, 295, 296 ISO 16028 Fits Female	Plastic	Black, Yellow
QFP-06			
QFP-08			
QFP-12			
QFP-16			
QFSC-06	QFSM SERIES 297 ISO 16028 - Threaded Flat Face Fits Male	Aluminium	
QFSC-08			
QFSC-12			
QFSC-16			
QFSP-06	QFSF SERIES 297 ISO 16028 - Threaded Flat Face Fits Female	Aluminium	
QFSP-08			
QFSP-12			
QFSP-16			
QSC-04	QSM SERIES 87 ISO 14541 Fits Male	Aluminium	
QSC-06			
QSC-08			
QSC-12			
QSC-16			
QSP-04	QSF SERIES 87 ISO 14541 Fits Female	Aluminium	
QSP-06			
QSP-08			
QSP-12			
QSP-16			
QBC-04	QBM Series 82 ISO 7241 - B Fits Male	Plastic	Black, Blue, Green, Red, Yellow, Purple
QBC-06			
QBC-08			
QBC-12			
QBC-16			
QBP-04	QBF Series 82 ISO 7241 - B Fits Female	Plastic	Black, Blue, Green, Red, Yellow, Purple
QBP-06			
QBP-08			
QBP-12			
QBP-16			

08





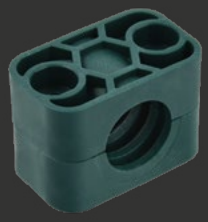
PIPE CLAMPS

Pipe clamps provide structured support and vibration control for hydraulic tubing and pipe systems. Proper clamping reduces mechanical stress, prevents movement, and increases overall system longevity.

This section includes standard-duty and heavy-duty clamp systems used in mobile equipment, industrial installations, and hydraulic power units where routing stability and mechanical protection are essential.

PIPE CLAMPS

Single Pipe Clamp
480



A 1-6
482



SPC - Slotted Machine Screw
483



SPC - Cap Head Bolt
484



SPC - Hex Bolt
485



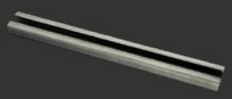
SPC - Lock Washer
486



SPC - Cover Plate
487



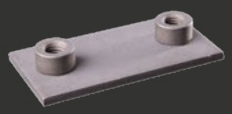
SPC - Mounting Rail
488



SPC / DPC MRN
489



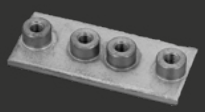
SPC - Base Plate
490



SPC - Base Plate L
491



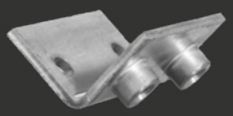
SPC - Double Base Plate
492



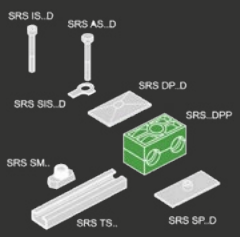
SPC - Base Plate R
493



SPC - Base Plate 90
494



B
495



Double Pipe Clamp
496



DPC - Cap Head Bolt
498



DPC - Hex Bolt
499



SPC - Lock Washer D
500

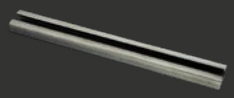


DPC - Cover Plate
501



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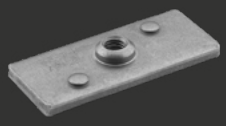
SPC - Mounting Rail
502



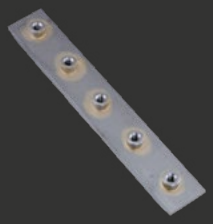
DPC - Mount Rail Nut
503



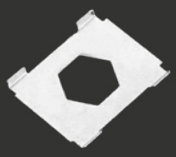
DPC - Base Plate
504



DPC - Multi Base Plate
505



DPC - Lock Washer Twin
506



C
507



Heavy Duty Single Pipe Clamp
508



HDSPC CHB 30-100
510



HDSPC HB 30-100
511



HDSPC LW 30-100
512



HDSPC CP 30-100
513



HDSPC BP 30-100
514



HDSPC BPL 30-100
515



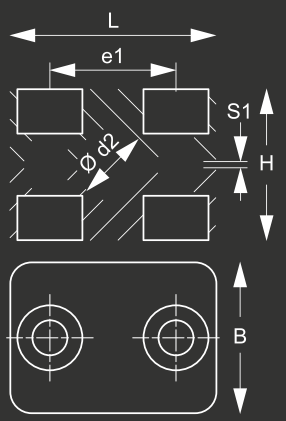
Single Pipe Clamp

Pipe clamp, Light series



Design:	Single pipe clamp
Supplementary design information:	Inside of clamp with web
Series:	Light
Standard:	DIN 3015-1
Temp. min:	-30 °C
Temp. max:	90 °C
Material:	Polypropylene
Description:	Webs in the inner surface of the clamps dampen impacts and vibrations and absorb forces along the pipe axis. A gap between the two halves pretensions the pipe.

Größe 1 - 6



Note: The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Identification	External pipe Ø d2 mm	External pipe Ø d2 inch	Clamp size	e1 mm	H mm	L mm	S1 mm
SPC 106 PP	6.0	-	1	20	27	34	0.6
SPC 106.4 PP	6.4	1/4"	1	20	27	34	0.6
SPC 108 PP	8.0	5/16"	1	20	27	34	0.6
SPC 109 5 PP	9.5	3/8"	1	20	27	34	0.6
SPC 110 PP	10.0	-	1	20	27	34	0.6
SPC 112 PP	12.0	-	1	20	27	34	0.6
SPC 0212.7 PP	12.7	1/2"	2	26	33	40	0.8
SPC 0213.5 PP	13.5	-	2	26	33	40	0.8
SPC 0214 PP	14.0	-	2	26	33	40	0.8
SPC 0215 PP	15.0	-	2	26	33	40	0.8
SPC 0216 PP	16.0	5/8"	2	26	33	40	0.8
SPC 0217.2 PP	17.2	-	2	26	33	40	0.8
SPC 0218 PP	18.0	-	2	26	33	40	0.8
SPC 0319 PP	19.0	3/4"	3	33	35	48	1.0
SPC 0320 PP	20.0	-	3	33	35	48	1.0
SPC 0321.3 PP	21.3	-	3	33	35	48	1.0

Single Pipe Clamp

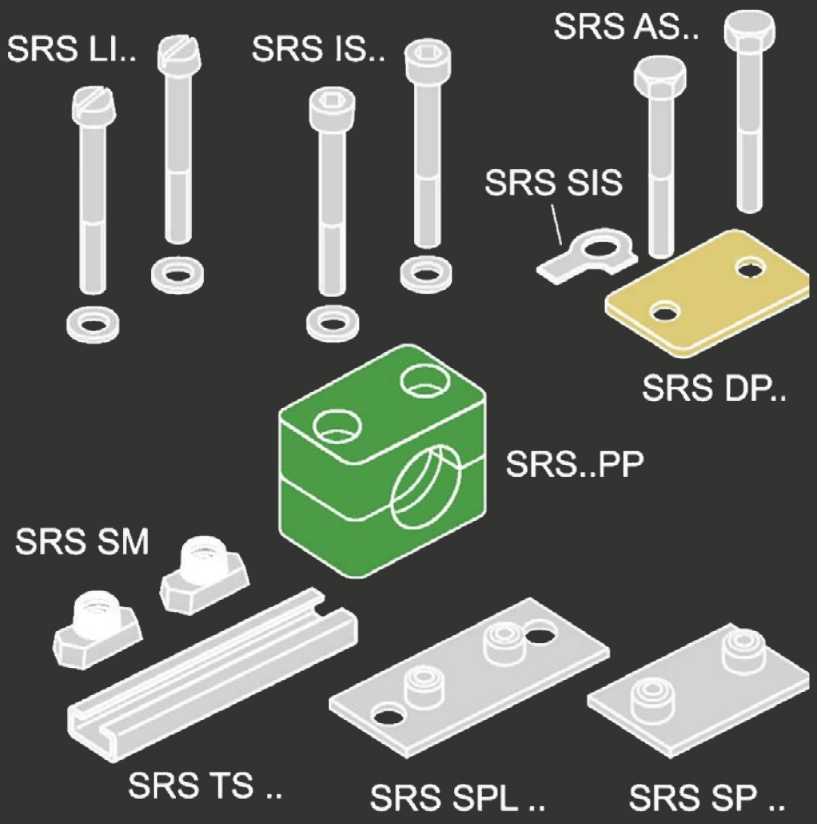
Pipe clamp, Light series

Identification	External pipe Ø d2 mm	External pipe Ø d2 inch	Clamp size	e1 mm	H mm	L mm	S1 mm
SPC 0322 PP	22.0	-	3	33	35	48	1.0
SPC 0323 PP	23.0	-	3	33	35	48	1.0
SPC 0325 PP	25.0	1"	3	33	35	48	1.0
SPC 0426.9 PP	26.9	-	4	40	42	57	1.2
SPC 0428 PP	28.0	-	4	40	42	57	1.2
SPC 0430 PP	30.0	-	4	40	42	57	1.2
SPC 0532 PP	32.0	1.1/4"	5	52	58	70	1.2
SPC 0533.7 PP	33.7	-	5	52	58	70	1.2
SPC 0535 PP	35.0	-	5	52	58	70	1.2
SPC 0538 PP	38.0	1.1/2"	5	52	58	70	1.2
SPC 0540 PP	40.0	-	5	52	58	70	1.2
SPC 0542 PP	42.0	-	5	52	58	70	1.2
SPC 0542.4 PP	42.4	-	5	52	58	70	1.2
SPC 0644.5 PP	44.5	1.3/4"	6	66	66	86	1.2
SPC 0645 PP	45.0	-	6	66	66	86	1.2
SPC 0648 PP	48.0	-	6	66	66	86	1.2
SPC 0650 PP	50.0	-	6	66	66	86	1.2
SPC 0650.8 PP	50.8	2"	6	66	66	86	1.2
SPC 0652 PP	52.0	-	6	66	66	86	1.2
SPC 0655 PP	55.0	-	6	66	66	86	1.2
SPC 0657 PP	57.0	2.1/4"	6	66	66	86	1.2

Product Versions:
SRS 1-6 AL - Pipe clamp, Light series, Aluminium, Inside of clamp with web
SRS 1-6 PA - Pipe clamp, Light series, Polyamide 6, Inside of clamp with web
SRS 1-6 PA G - Pipe clamp, Light series, Polyamide 6, Inside of clamp, smooth
Single Pipe Clamp G - Pipe clamp, Light series, Polypropylene, Inside of clamp, smooth
SRS 1-6 VG - Pipe clamp, Light series, Solid rubber Shore 64° / 73°, Inside of clamp, smooth

Additional element for following products
A 1-6 A - Configuration of group A 1-6 composition
A 1-6 - Configuration of group A 1-6

A 1-6
Configuration of group A 1-6



Description:	Can either be fitted on welding plates or on mounting rails. The lamp size is the crucial selection criterion for the configuration.

Identification
A 1-6

Additional elements:
Single Pipe Clamp - Pipe clamp, Light series
SPC - Slotted Machine Screw - Slotted screw for single pipe clamp
SPC - Cap Head Bolt - Hexagon socket screw, single pipe clamp
SPC - Hex Bolt - Hexagon screw for single pipe clamp
SPC - Lock Washer - Lock washer for single pipe clamp
SPC - Cover Plate - Cover plate for single pipe clamp
SPC - Mounting Rail - Mounting rail, single and double pipe clamp
SPC / DPC MRN - Mounting rail nut
SPC - Base Plate - Welded on base plate, single pipe clamp, Short
SPC - Base Plate L - Welded on and screw-on base plate, long
SPC - Double Base Plate - Double welded on base plate, single pipe clamp
SPC - Base Plate R - Series welded on base plate, single pipe clamp
SPC - Base Plate 90 - Angle welded on and screw-on base plates

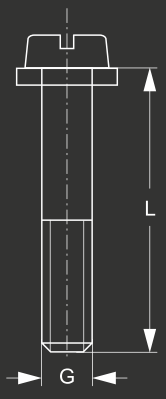
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SPC - Slotted Machine Screw

Slotted screw for single pipe clamp



Design:	For single pipe clamps
Series:	Light
Standard:	DIN 84 (ISO 1207)
Included in scope of supply:	With plain washer
Material:	Steel
Surface:	Electro galvanised



Identification	Clamp size	G	L mm
SPC SMS 1	0 -1	M 6	20
SPC SMS 2	2	M 6	25
SPC SMS 3	3	M 6	30
SPC SMS 4	4	M 6	35
SPC SMS 5	5	M 6	50
SPC SMS 6	6	M 6	60

Product Versions:
SPC - Slotted Machine Screw V4 - Slotted screw for single pipe clamp, Stainless steel 1.4571

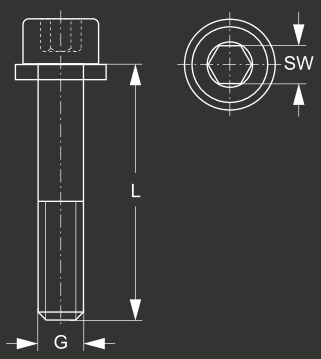
Additional element for following products:
A 1-6 - Configuration of group A 1-6

SPC - Cap Head Bolt

Hexagon socket screw, single pipe clamp



Design:	For single pipe clamps
Series:	Light
Standard:	DIN 912 (ISO 4762)
Included in scope of supply:	With plain washer
Material:	Steel
Surface:	Electro galvanised



Identification	Clamp size	G	L mm	SW mm
SPC CHB 1	0 -1	M 6	20	5
SPC CHB 2	2	M 6	25	5
SPC CHB 3	3	M 6	30	5
SPC CHB 4	4	M 6	35	5
SPC CHB 5	5	M 6	50	5
SPC CHB 6	6	M 6	60	5

Product Versions:
SPC - Cap Head Bolt V4 - Hexagon socket screw, single pipe clamp, Stainless steel

Additional element for following products
A 1-6 - Configuration of group A 1-6

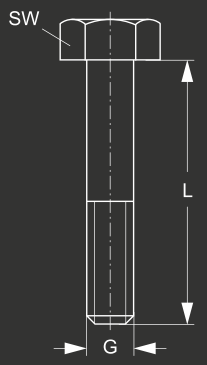
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SPC - Hex Bolt

Hexagon screw for single pipe clamp



Design:	For single pipe clamps
Series:	Light
Standard:	DIN 931 (ISO 4014) or DIN 933 (ISO
Material:	4017
Surface:	Steel



Identification	Clamp size	G	L mm	SW mm
SPC HB 1	0 -1	M 6	30	10
SPC HB 2	2	M 6	35	10
SPC HB 3	3	M 6	40	10
SPC HB 4	4	M 6	45	10
SPC HB 5	5	M 6	60	10
SPC HB 6	6	M 6	70	10

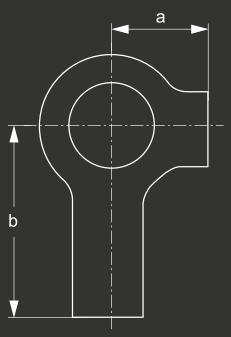
Product Versions:
SPC - Hex Bolt V4 - Hexagon screw for single pipe clamp, Stainless steel 1.4571

SPC - Lock Washer

Lock washer for single pipe clamp



Design:	For single pipe clamps
Series:	Light
Standard:	DIN 3015
Material:	Steel
Surface:	Electro galvanised
Description:	For all clamp sizes from light series and the double pipe clamp.



Identification	a mm	b mm
SPC LW	9	18

Additional element for following products
A 1-6 - Configuration of group A 1-6
A 0 - Configuration of group A 0

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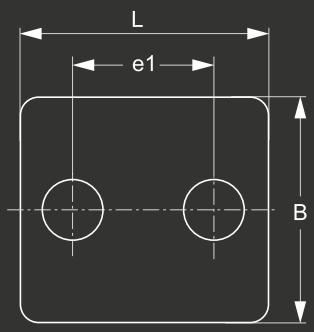
SPC - Cover Plate

Cover plate for single pipe clamp



Design:	For single pipe clamps
Series:	Light
Standard:	DIN 3015-1
Material:	Steel
Surface:	Electro galvanised

Größe 1 - 6



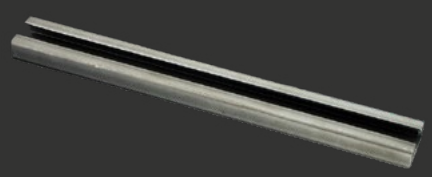
Identification	Clamp size	B mm	e1 mm	L mm
SPC CP 1	1	30	20	34
SPC CP 2	2	30	26	40
SPC CP 3	3	30	33	48
SPC CP 4	4	30	40	57
SPC CP 5	5	30	52	70
SPC CP 6	6	30	66	86

Product Version:
SPC - Cover Plate V4 - Cover plate for single pipe clamp, Stainless steel 1.4571

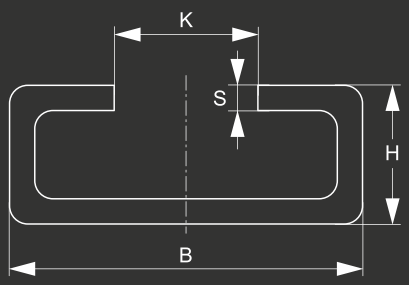
Additional element for following products:
A 1-6 - Configuration of group A 1-6

SPC - Mounting Rail

Mounting rail, single and double pipe clamp



Design:	For single and twin pipe clamps
Series:	Light
Standard:	DIN 3015-1
Material:	Steel (bright)
Description:	For all clamp sizes from light series and the double pipe clamp.



Identification	B mm	H mm	K mm	S mm	Length m
SPC / DPC MR 11-1	28	11	11.4	2	1.00
SPC / DPC MR 11-2	28	11	11.4	2	2.00
SPC / DPC MR 14-1	28	14	11.4	2	1.00
SPC / DPC MR 14-2	28	14	11.4	2	2.00
SPC / DPC MR 14-3	28	14	11.4	2	3.00
SPC / DPC MR 30-1	28	30	11.4	2	1.00
SPC / DPC MR 30-2	28	30	11.4	2	2.00

Product Versions:
SPC - Mounting Rail V4 - Mounting rail, single and double pipe clamp, Stainless steel 1.4571
SPC - Mounting Rail VZ - Mounting rail, single and double pipe clamp, Steel, Electro galvanised

Additional element for following products
B - Configuration of group B
A 1-6 - Configuration of group A 1-6
A 0 - Configuration of group A 0

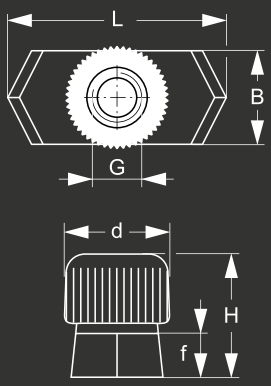
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SPC / DPC MRN

Mounting rail nut



Design:	For single and twin pipe clamps
Series:	Light
Standard:	DIN 3015-1
Material:	Steel and rubber
Surface:	Electro galvanised
Description:	For all clamp sizes from Light series and clamp size 1 of the double pipe clamp.

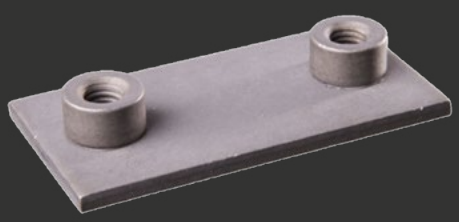


Identification	Clamp size	B mm	d mm	f mm	G	H mm	L mm
SPC / DPC MRN	0 -6	10.4	12	5	M 6	14.5	25.4

SW, S1, S2 = Width across flats

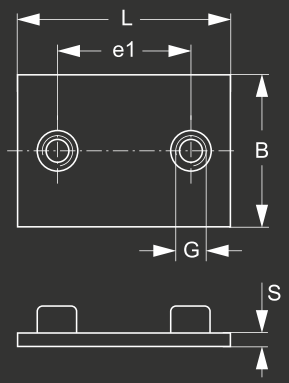
SPC - Base Plate

Welded on base plate, single pipe clamp, Short



Design:	For single pipe clamps
Supplementary design information:	Short
Series:	Light
Standard:	DIN 3015-1
Material:	Steel
Surface:	Phosphate treated

Größe 1 - 6



Identification	Clamp size	B mm	e1 mm	G	L mm	S mm
SPC BP 1	1	30	20	M 6	36	3
SPC BP 2	2	30	26	M 6	42	3
SPC BP 3	3	30	33	M 6	50	3
SPC BP 4	4	30	40	M 6	59	3
SPC BP 5	5	30	52	M 6	72	3
SPC BP 6	6	30	66	M 6	88	3

Product Versions:
SPC - Base Plate V4 - Welded on base plate, single pipe clamp, Short, Stainless steel 1.4571
SPC - Base Plate VZ - Welded on base plate, single pipe clamp, Short, Steel, Electro galvanised

Additional element for following products:
A 1-6 - Configuration of group A 1-6

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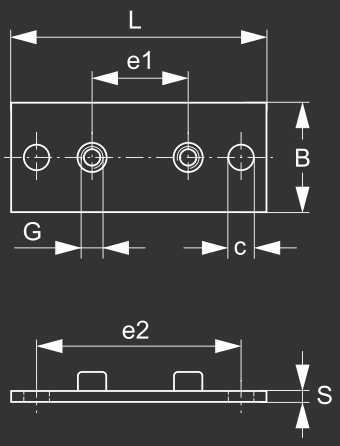
SPC - Base Plate L

Welded on and screw-on base plate, long



Design:	For single pipe clamps
Series:	Light
Standard:	DIN 3015-1
Material:	Steel
Surface:	Phosphate treated

Größe 1 - 6



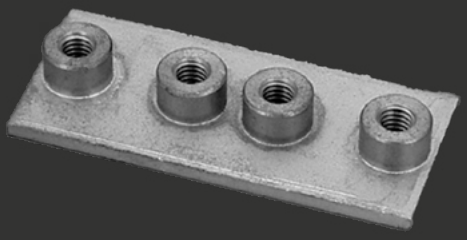
Identification	Clamp size	B mm	c mm	e1 mm	e2 mm	G	L mm	S mm
SPC BPL 1	1	30	7	20	50	M 6	64	3
SPC BPL 2	2	30	7	26	46	M 6	70	3
SPC BPL 3	3	30	7	33	64	M 6	78	3
SPC BPL 4	4	30	7	40	73	M 6	87	3
SPC BPL 5	5	30	7	52	86	M 6	100	3
SPC BPL 6	6	30	7	66	100	M 6	116	3

Product Versions:
SPC - Base Plate L V4 - Welded on and screw-on base plate, long, Stainless steel 1.4571
SPC - Base Plate L VZ - Welded on and screw-on base plate, long, Steel, Electro galvanised

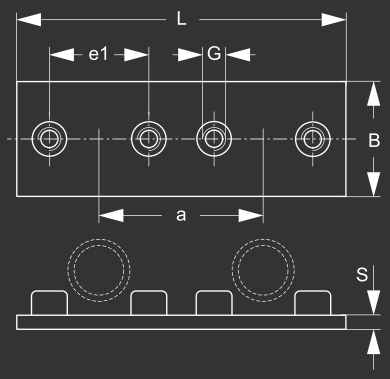
Additional element for following products:
A 1-6 - Configuration of group A 1-6

SPC - Double Base Plate

Double welded on base plate, single pipe clamp



Design:	For single pipe clamps
Series:	Light
Standard:	DIN 3015-1
Material:	Steel
Surface:	Phosphate treated



Identification	Clamp size	B mm	e1 mm	G	L mm	S mm
SPC BP 1	1	30	20	M 6	36	3
SPC BP 2	2	30	26	M 6	42	3
SPC BP 3	3	30	33	M 6	50	3
SPC BP 4	4	30	40	M 6	59	3
SPC BP 5	5	30	52	M 6	72	3
SPC BP 6	6	30	66	M 6	88	3

Product Versions:
SPC - Double Base Plate VZ - Double cover plate, single pipe clamp, Steel, Electro galvanised

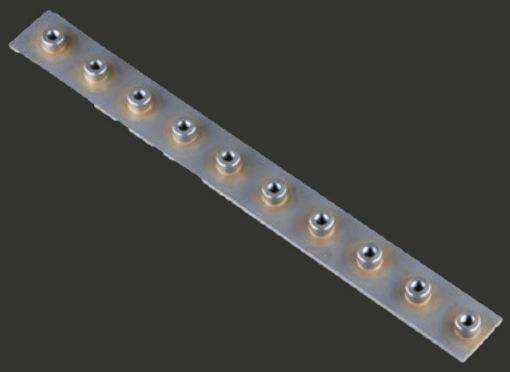
Additional element for following products:
A 1-6 - Configuration of group A 1-6

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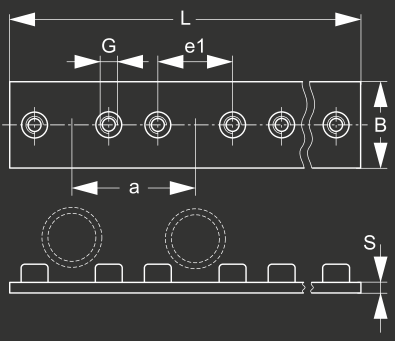
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SPC - Base Plate R

Series welded on base plate, single pipe clamp



Design:	For single pipe clamps
Series:	Light
Standard:	DIN 3015-1
Material:	Steel
Surface:	Phosphate treated
Description:	Number of mountings: Clamp sizes 1-3 = for 10 clamps; clamp sizes 4-6 = for 5 clamps.



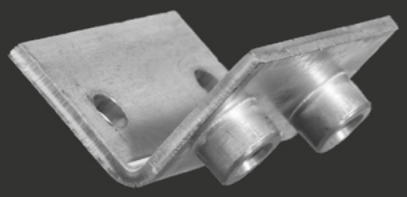
Identification	Clamp size	a mm	B mm	e1 mm	G	L mm	S mm
SPC MBP 1	1	35	30	20	M 6	349	3
SPC MBP 2	2	43	30	26	M 6	427	3
SPC MBP 3	3	52	30	33	M 6	516	3
SPC MBP 4	4	60	30	40	M 6	297	3
SPC MBP 5	5	75	30	52	M 6	370	3
SPC MBP 6	6	90	30	66	M 6	446	3

Product Versions:
SPC - Base Plate R VZ - Series welded on base plate, single pipe clamp, Electro galvanised

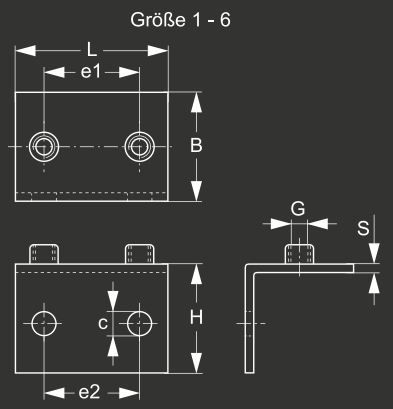
Additional element for following products:
A 1-6 - Configuration of group A 1-6

SPC - Base Plate 90

Angle welded on and screw-on base plates



Construction:	Angle 90°
Design:	For single pipe clamps
Series:	Light
Standard:	DIN 3015-1
Material:	Steel
Surface:	Phosphate treated



Identification	Clamp size	B mm	c mm	e1 mm	e2 mm	G	H mm	L mm	S mm
SPC BP90 1	1	30	6.6	20.0	20	M 6	30	36.0	3
SPC BP90 2	2	30	6.6	26.0	26	M 6	30	42.0	3
SPC BP90 3	3	30	6.6	33.0	33	M 6	30	50.0	3
SPC BP90 4	4	30	6.6	40.0	40	M 6	30	59.0	3
SPC BP90 5	5	30	6.6	52.0	52	M 6	30	72.0	3
SPC BP90 6	6	30	6.6	66.0	66	M 6	30	88.0	3

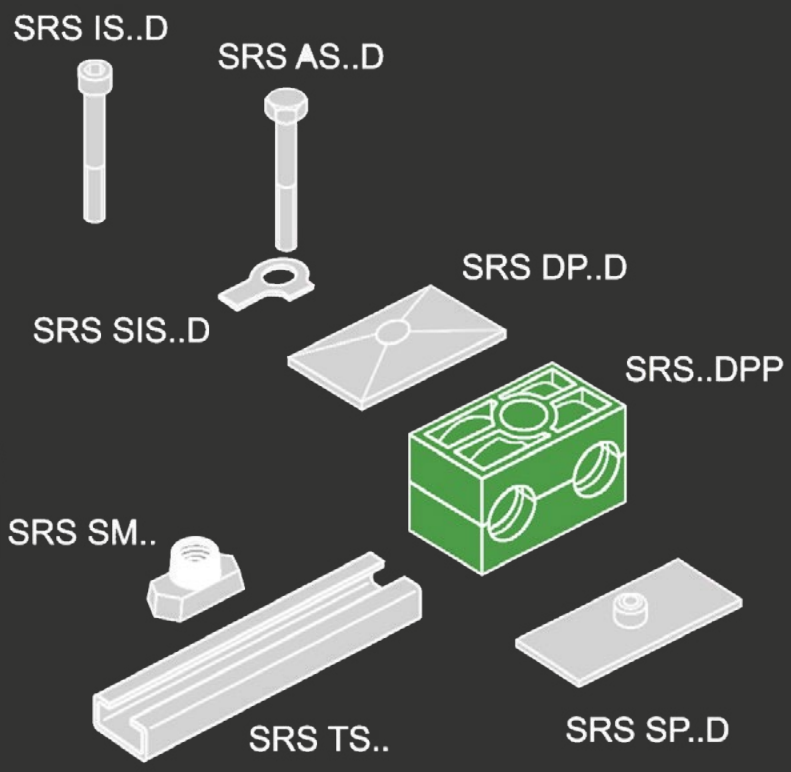
Product Versions:
SPC - Base Plate 90 V4 - Angle welded on and screw-on base plates, Stainless steel 1.4571

Additional element for following products:
A 1-6 - Configuration of group A 1-6

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B
Configuration of group B



Description:	Can either be fitted on welding plates or on mounting rails. The lamp size is the crucial selection criterion for the configuration.

Identification
B

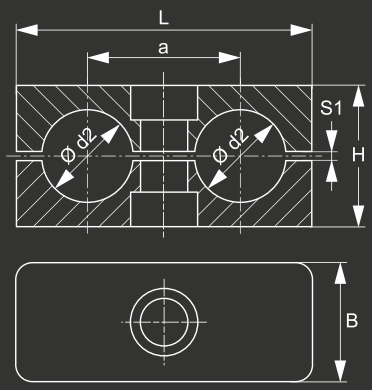
Additional elements:
Double Pipe Clamp - Pipe clamp, double pipes
DPC - Cap Head Bolt - Hexagon socket screw, double pipe clamp
DPC - Hex Bolt - Hexagon screw for double pipe clamp
SPC - Lock Washer D - Lock washer for double pipe clamp
DPC - Cover Plate - Cover plate for double pipe clamp
SPC - Mounting Rail - Mounting rail, single and double pipe clamp
DPC - Mount Rail Nut - Mounting rail nut, double pipe clamp
DPC - Base Plate - Welded on base plate for double pipe clamp
DPC - Multi Base Plate - Series welded on base plate, double pipe clamp

Double Pipe Clamp

Pipe clamp, double pipes



Design:	NPT external threads
Supplementary design information:	Thread seal
Standard:	NPT internal thread
Temp. min:	Thread seal
Temp. max:	Screw-in sockets
Material:	Angle 90°
Description:	Webs in the inner surface of the clamps dampen impacts and vibrations and absorb forces along the pipe axis. A gap between the two halves pretensions the pipe.



Note: The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Identification	Clamp size	External pipe Ø d2 mm	External pipe Ø d2 inch	a mm	B mm	H mm	L mm	S1 mm
DPC 106 PP	1	6.0	-	20	30	27	36	1.0
DPC 106.4 PP	1	6.4	1/4"	20	30	27	36	1.0
DPC 108 PP	1	8.0	5/16"	20	30	27	36	1.0
DPC 109.5 PP	1	9.5	3/8"	20	30	27	36	1.0
DPC 110 PP	1	10.0	-	20	30	27	36	1.0
DPC 112 PP	1	12.0	-	20	30	27	36	1.0
DPC 212.7 PP	2	12.7	1/2"	29	30	26	53	1.2
DPC 213.5 PP	2	13.5	-	29	30	26	53	1.2
DPC 214 PP	2	14.0	-	29	30	26	53	1.2
DPC 215 PP	2	15.0	-	29	30	26	53	1.2
DPC 216 PP	2	16.0	5/8"	29	30	26	53	1.2
DPC 217.2 PP	2	17.2	-	29	30	26	53	1.2
DPC 218 PP	2	18.0	-	29	30	26	53	1.2
DPC 319 PP	3	19.0	3/4"	36	30	37	67	1.6
DPC 320 PP	3	20.0	-	36	30	37	67	1.6
DPC 321.3 PP	3	21.3	-	36	30	37	67	1.6
DPC 322 PP	3	22.0	-	36	30	37	67	1.6
DPC 325 PP	3	25.0	1"	36	30	37	67	1.6
DPC 426.9 PP	4	26.9	-	45	30	42	82	2.0
DPC 428 PP	4	28.0	-	45	30	42	82	2.0
DPC 430 PP	4	30.0	-	45	30	42	82	2.0
DPC 532 PP	5	32.0	1.1/4"	56	30	54	106	2.0

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Double Pipe Clamp

Pipe clamp, double pipes

Product Versions:
Double Pipe Clamp G - Pipe clamp, double pipes, Polypropylene, Inside of clamp, smooth
SRS 1-5 D PA - Pipe clamp, double pipes, Polyamide 6, Inside of clamp with web
SRS 1-5 D VG - Pipe clamp, double pipes, Solid rubber Shore 64° / 73°, Inside of clamp, smooth

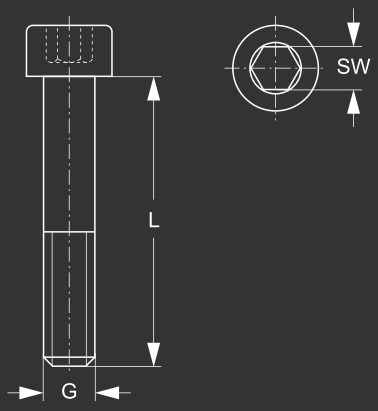
Additional element for following products:
B A - Configuration of group B composition
B - Configuration of group B

DPC - Cap Head Bolt

Hexagon socket screw, double pipe clamp



Design:	For twin pipe clamps
Standard:	DIN 912 (ISO 4762)
Material:	Steel
Surface:	Electro galvanised



Identification	Clamp size	G	L mm	SW mm
DPC CHB 1 D	1	M 6	35	5
DPC CHB 2 D	2	M 8	35	6
DPC CHB 3 D	3	M 8	45	6
DPC CHB 4 D	4	M 8	50	6
DPC CHB 5 D	5	M 8	60	6

Additional element for following products
B - Configuration of group B

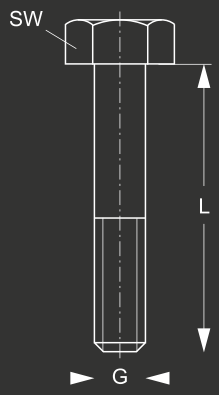
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DPC - Hex Bolt

Hexagon screw for double pipe clamp



Design:	For twin pipe clamps
Standard:	DIN 931 (ISO 4014) or DIN 933 (ISO 4017)
Material:	Steel
Surface:	Electro galvanised



Identification	Clamp size	G	L mm	SW mm
DPC HB 1 D	1	M 6	35	10
DPC HB 2 D	2	M 8	35	13
DPC HB 3 D	3	M 8	45	13
DPC HB 4 D	4	M 8	50	13
DPC HB 5 D	5	M 8	60	13

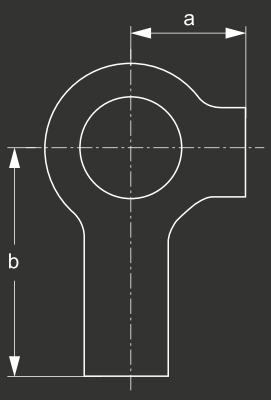
SW, S1, S2 = Width across flats

SPC - Lock Washer D

Lock washer for double pipe clamp



Design:	For twin pipe clamps
Standard:	DIN 3015-1
Material:	Steel
Surface:	Electro galvanised



Identification	Clamp size	a mm	b mm
DPC LW 1	1	9	18
DPC LW 2	2 -5	11	20

SW, S1, S2 = Width across flats

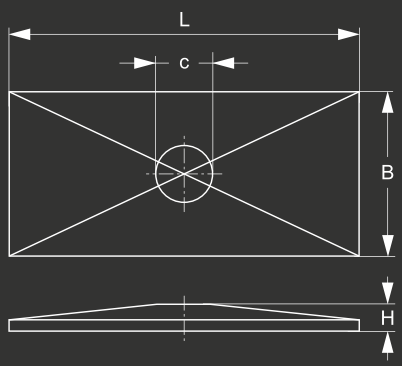
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DPC - Cover Plate

Cover plate for double pipe clamp



Design:	For twin pipe clamps
Standard:	DIN 3015-3
Material:	Steel
Surface:	Electro galvanised



Identification	Clamp size	B mm	C mm	H mm	L mm
DPC CP 1	1	30	6.8	6.5	34
DPC CP 2 D	2	30	9.0	6.5	51
DPC CP 3 D	3	30	8.6	6.5	64
DPC CP 4 D	4	30	8.6	6.5	78
DPC CP 5 D	5	30	8.5	6.5	102

Product Versions:
DPC - Cover Plate V4 - Cover plate for double pipe clamp, Stainless steel 1.4571

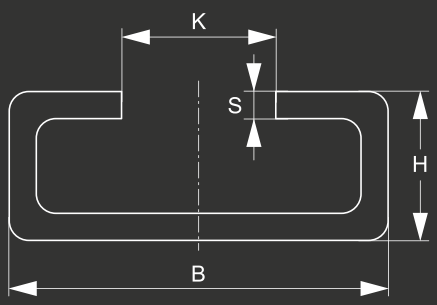
Additional element for following products:
B - Configuration of group B

SPC - Mounting Rail

Mounting rail, single and double pipe clamp



Design:	For single and twin pipe clamps
Series:	Light
Standard:	DIN 3015-1
Material:	Steel (bright)
Description:	For all clamp sizes from light series and the double pipe clamp.



Identification	B mm	H mm	K mm	Length m	S mm
SPC / DPC MR 11-1	28.0	11	11.4	1.00	2.0
SPC / DPC MR 11-2	28.0	11	11.4	2.00	2.0
SPC / DPC MR 14-1	28.0	14	11.4	1.00	2.0
SPC / DPC MR 14-2	28.0	14	11.4	2.00	2.0
SPC / DPC MR 14-3	28.0	14	11.4	3.00	2.0
SPC / DPC MR 30-1	28.0	30	11.4	1.00	2.0
SPC / DPC MR 30-2	28.0	30	11.4	2.00	2.0

Product Versions:
SPC - Mounting Rail V4 - Mounting rail, single and double pipe clamp, Stainless steel 1.4571
SPC - Mounting Rail VZ - Mounting rail, single and double pipe clamp, Steel, Electro galvanised

Additional element for following products:
B - Configuration of group B
A 1-6 - Configuration of group A 1-6
A 0 - Configuration of group A 0

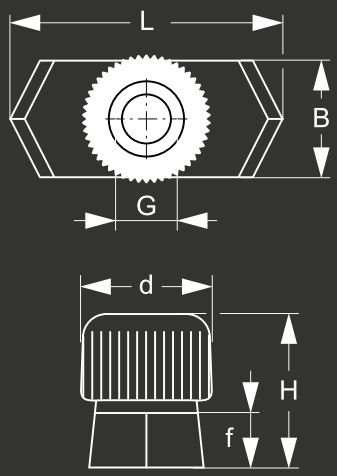
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DPC - Mount Rail Nut

Mounting rail nut, double pipe clamp



Design:	For twin pipe clamps
Standard:	DIN 3015-3
Material:	Steel and rubber
Surface:	Electro galvanised



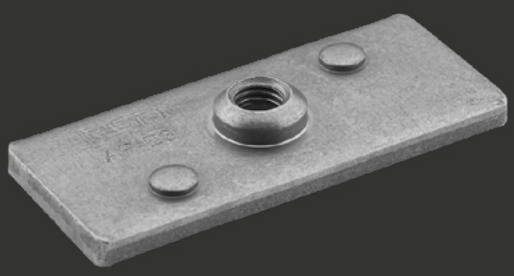
Identification	Clamp size	B mm	d mm	f mm	G	H mm	L mm
SPC / DPC MRN D	2 -5	10.4	14	5	M 8	13.0	25.4

Product Version:
DPC - Mount Rail Nut V4 - Mounting rail nut, double pipe clamp, Stainless steel 1.4571

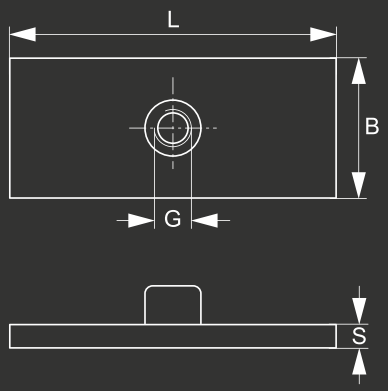
Additional element for following products:
B - Configuration of group B

DPC - Base Plate

Welded on base plate for double pipe clamp



Design:	For twin pipe clamps
Standard:	DIN 3015-3
Material:	Steel
Surface:	Phosphate treated



Identification	Clamp size	B mm	G	L mm	S mm
DPC BP 1	1	30	M 6	37	3
DPC BP 2 D	2	30	M 8	55	5
DPC BP 3 D	3	30	M 8	70	5
DPC BP 4 D	4	30	M 8	85	5
DPC BP 5 D	5	30	M 8	110	5

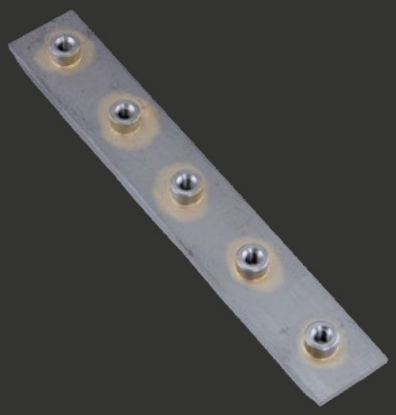
Product Versions:
DPC - Base Plate V4 - Welded on base plate for double pipe clamp, Stainless steel 1.4571
DPC - Base Plate VZ - Welded on base plate for double pipe clamp, Steel, Electro galvanised

Additional element for following products:
B - Configuration of group B

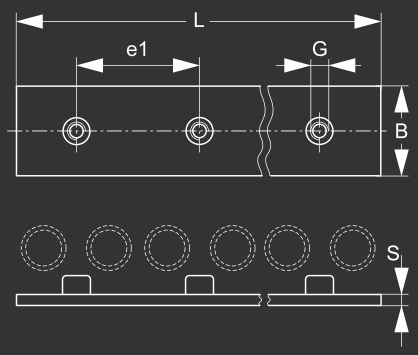
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DPC - Multi Base Plate

Series welded on base plate, double pipe clamp



Design:	For twin pipe clamps
Standard:	DIN 3015-3
Material:	Steel
Surface:	Phosphate treated

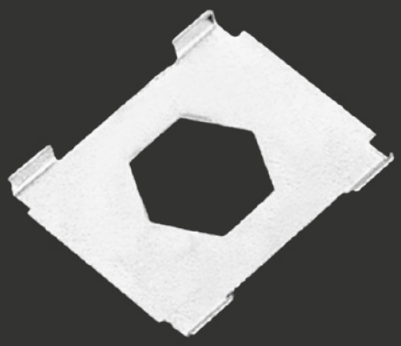


Identification	Clamp size	B mm	e1 mm	G	L mm	S mm
DPC MBP 1	1	30	40	M 6	196	3
DPC MBP 2	2	30	58	M 8	288	5
DPC MBP 3	3	30	72	M 8	358	5
DPC MBP 4	4	30	90	M 8	446	5
DPC MBP 5	5	30	112	M 8	558	5

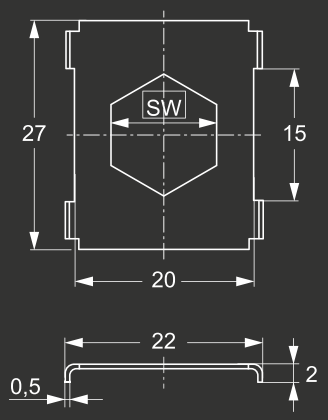
Additional element for following products:
B - Configuration of group

DPC - Lock Washer Twin

Lock washer for double pipe clamp



Design:	For twin pipe clamps
Standard:	DIN 3015-3
Material:	Steel
Surface:	Electro galvanised



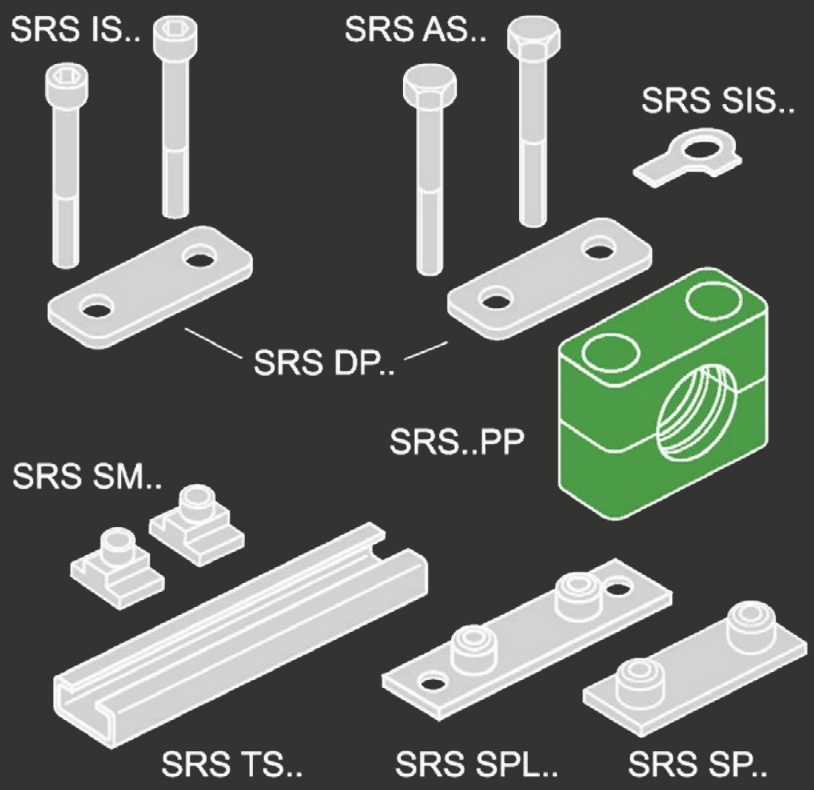
Identification	Clamp size	SW mm
DPC LWT 1	1	11
DPC LWT 2	2 -5	12

Product Versions:
DPC - Lock Washer Twin V4 - Lock washer for double pipe clamp, Stainless steel 1.4571

Additional element for following products:
B A - Configuration of group B composition

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C
Configuration of group C



Description:	The clamp size is the crucial selection criterion for the configura

Identification
C

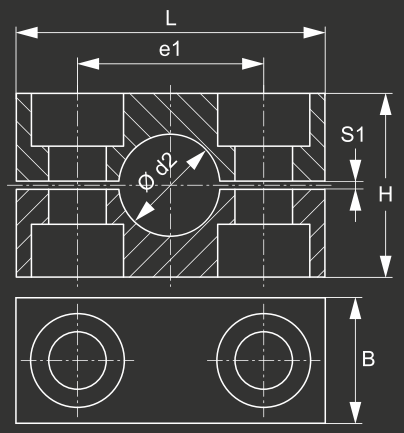
Additional elements
SRS 30-100 PP - Pipe clamp, Heavy series
HDSPC CHB 30-100 - Hexagon socket screw, single pipe clamp
HDSPC HB 30-100 - Hexagon screw for single pipe clamp
HDSPC LW 30-100 - Lock washer for single pipe clamp
HDSPC CP 30-100 - Cover plate for single pipe clamp
SPC - Mounting Rail 40 - Mounting rail, single pipe clamp
SPC / DPC MRN 30-60 - Mounting rail nut, single pipe clamp
HDSPC BP 30-100 - Welded on base plate for single pipe clamp
HDSPC BPL 30-100 - Welded on and screw-on base plate, long

Heavy Duty Single Pipe Clamp

Pipe clamp, Heavy series



Design:	Single pipe clamp
Supplementary design information:	Inside of clamp with web
Series:	Heavy
Standard:	DIN 3015-2
Temp. min:	-30 °C
Temp. max:	90 °C
Material:	Polypropylene
Description:	Webs in the inner surface of the clamps dampen impacts and vibrations and absorb forces along the pipe axis. A gap between the two halves pretensions the pipe.



Note: The use of clamps with a smooth inner surface is recommended for retaining hoses and cables. No pretension is applied when fitting and the block height H is reduced to the gap width S1.

Identification	Clamp size	External pipe Ø d2 mm	External pipe Ø d2 inch	B mm	e1 mm	H mm	L mm	S1 mm
HDSPC 3006 PP	1	6.0	-	30	33	32	56	2
HDSPC 3008 PP	1	8.0	5/16"	30	33	32	56	2
HDSPC 3010 PP	1	10.0	-	30	33	32	56	2
HDSPC 3012 PP	1	12.0	-	30	33	32	56	2
HDSPC 3012.7 PP	1	12.7	1/2"	30	33	32	56	2
HDSPC 3013.5 PP	1	13.5	-	30	33	32	56	2
HDSPC 3014 PP	1	14.0	-	30	33	32	56	2
HDSPC 3015 PP	1	15.0	-	30	33	32	56	2
HDSPC 3016 PP	1	16.0	5/8"	30	33	32	56	2
HDSPC 3017.2 PP	1	17.2	-	30	33	32	56	2
HDSPC 3018 PP	1	18.0	-	30	33	32	56	2
HDSPC 4019 PP	2	19.0	3/4"	30	45	48	71	2
HDSPC 4020 PP	2	20.0	-	30	45	48	71	2
HDSPC 4021.3 PP	2	21.3	-	30	45	48	71	2
HDSPC 4022 PP	2	22.0	-	30	45	48	71	2
HDSPC 4023 PP	2	23.0	-	30	45	48	71	2
HDSPC 4025 PP	2	25.0	1"	30	45	48	71	2
HDSPC 4026.9 PP	2	26.9	-	30	45	48	71	2

Heavy Duty Single Pipe Clamp

Pipe clamp, Heavy series

Identification	Clamp size	External pipe Ø d2 mm	External pipe Ø d2 inch	B mm	e1 mm	H mm	L mm	S1 mm
HDSPC 4028 PP	2	28.0	-	30	45	48	71	2
HDSPC 4030 PP	2	30.0	-	30	45	48	71	2
HDSPC 5030 PP	3	30.0	-	30	60	60	86	2
HDSPC 5032 PP	3	32.0	1.1/4"	30	60	60	86	2
HDSPC 5033.7 PP	3	33.7	-	30	60	60	86	2
HDSPC 5035 PP	3	35.0	-	30	60	60	86	2
HDSPC 5038 PP	3	38.0	1.1/2"	30	60	60	86	2
HDSPC 5040 PP	3	40.0	-	30	60	60	86	2
HDSPC 5042 PP	3	42.0	-	30	60	60	86	2
HDSPC 7073 PP	5	73.0	-	60	122	120	154	5
HDSPC 7075 PP	5	75.0	-	60	122	120	154	5
HDSPC 7076.1 PP	5	76.1	3"	60	122	120	154	5
HDSPC 7080 PP	5	80.0	-	60	122	120	154	5
HDSPC 7082.5 PP	5	82.5	3.1/4"	60	122	120	154	5
HDSPC 7088.9 PP	5	88.9	3.1/2"	60	122	120	154	5
HDSPC 7090 PP	5	90.0	-	60	122	120	154	5
HDSPC 8090 PP	6	90.0	-	80	168	170	205	6
HDSPC 8097 PP	6	97.0	-	80	168	170	205	6
HDSPC 8100 PP	6	100.0	-	80	168	170	205	6
HDSPC 8101.6 PP	6	101.6	4"	80	168	170	205	6
HDSPC 8108 PP	6	108.0	4.1/4"	80	168	170	205	6
HDSPC 8114.3 PP	6	114.3	4.1/2"	80	168	170	205	6
HDSPC 8127 PP	6	127.0	5"	80	168	170	205	6
HDSPC 9127 PP	7	127.0	5"	90	205	200	250	6
HDSPC 9133 PP	7	133.0	5.1/4"	90	205	200	250	6
HDSPC 9140 PP	7	140.0	5.1/2"	90	205	200	250	6
HDSPC 9150 PP	7	150.0	-	90	205	200	250	6
HDSPC 9152.4 PP	7	152.4	6"	90	205	200	250	6
HDSPC 9159 PP	7	159.0	6.1/4"	90	205	200	250	6
HDSPC 9165.1 PP	7	165.1	6.1/2"	90	205	200	250	6
HDSPC 9168.3 PP	7	168.3	6.5/8"	90	205	200	250	6
HDSPC 10168.3 PP	8	168.3	6.5/8"	120	265	270	320	6
HDSPC 10177.8 PP	8	177.8	7"	120	265	270	320	6
HDSPC 10193.7 PP	8	193.7	7.5/8"	120	265	270	320	6
HDSPC 10203 PP	8	203.0	-	120	265	270	320	6
HDSPC 10219.1 PP	8	219.1	8.5/8"	120	265	270	320	6
HDSPC 10220 PP	8	220.0	-	120	265	270	320	6

Product Versions:
SRS 30-100 AL - Pipe clamp, Heavy series, Aluminium, Inside of clamp with web
SRS 30-100 PA - Pipe clamp, Heavy series, Polyamide 6, Inside of clamp with web
SRS 30-100 PP G - Pipe clamp, Heavy series, Polypropylene, Inside of clamp, smooth
SRS 30-100 VG - Pipe clamp, Heavy series, Solid rubber Shore 64° / 73°, Inside of clamp with web

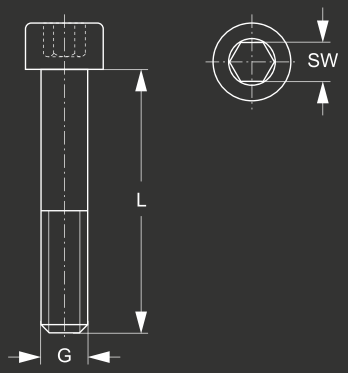
Additional element for following products:
C D - Configuration of group C double
C A - Configuration of group C composition
C - Configuration of group C

HDSPC CHB 30-100

Hexagon socket screw, single pipe clamp



Design:	For single pipe clamps
Series:	Heavy
Standard:	DIN 912 (ISO 4762)
Material:	Steel
Surface:	Electro galvanised



Identification	Clamp size	G	L mm	SW mm
HDSPC CHB 30	1	M 10	40	8
HDSPC CHB 40	2	M 10	60	8
HDSPC CHB 50	3	M 10	70	8
HDSPC CHB 60	4	M 12	100	10
HDSPC CHB 70	5	M 16	130	14
HDSPC CHB 80	6	M 20	190	17
HDSPC CHB 90	7	M 24	220	19
HDSPC CHB 100	8	M 30	300	22

Product Versions:
HDSPC CHB 30-100 V4 - Hexagon socket screw, single pipe clamp, Stainless steel 1.4571

Additional element for following products:
C - Configuration of group C
C D - Configuration of group C double

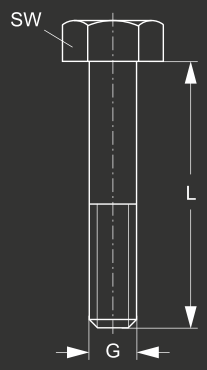
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HDSPC HB 30-100

Hexagon screw for single pipe clamp



Design:	For single pipe clamps Heavy
Series:	Heavy
Standard:	DIN 931 (ISO 4014) or DIN 933 (ISO 4017)
Material:	Steel
Surface:	Electro galvanised



Identification	Clamp size	G	L mm	SW mm
HDSPC HB 30	1	M 10	40	17
HDSPC HB 40	2	M 10	60	17
HDSPC HB 50	3	M 10	70	17
HDSPC HB 60	4	M 12	100	19
HDSPC HB 70	5	M 16	130	24
HDSPC HB 80	6	M 20	190	30
HDSPC HB 90	7	M 24	220	36
HDSPC HB 100	8	M 30	300	46

Product Versions:
HDSPC HB 30-100 V4 - Hexagon screw for single pipe clamp, Stainless steel 1.4571

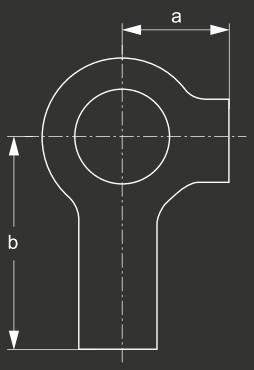
Additional element for following products
C D - Configuration of group C double
C - Configuration of group C

HDSPC LW 30-100

Lock washer for single pipe clamp



Design:	For single pipe clamps
Series:	Heavy
Standard:	DIN 3015-2
Material:	Steel
Surface:	Size 1 to size 4 Electro galvanised, uncoated from size 5



Identification	Clamp size	a mm	b mm
HDSPC LW 30	1	13	22
HDSPC LW 60	4	15	28
HDSPC LW 70	5	18	32
HDSPC LW 80	6	21	36

Additional element for following products:
C D - Configuration of group C double
C - Configuration of group C

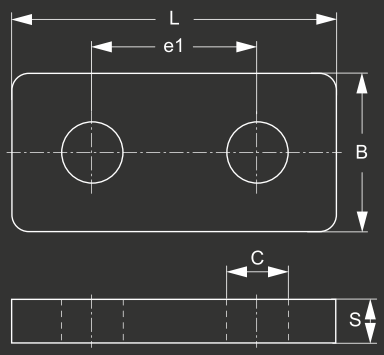
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HDSPC CP 30-100

Cover plate for single pipe clamp



Design:	For single pipe clamps
Series:	Heavy
Standard:	DIN 3015-2
Material:	Steel
Surface:	Size 1 to size 4 Electro galvanised, uncoated from size 5



Identification	Clamp size	B mm	C mm	e1 mm	L mm	S mm
HDSPC CP 30	1	30	11.0	33	55	8
HDSPC CP 40	2	30	11.0	45	70	8
HDSPC CP 50	3	30	11.0	60	85	8
HDSPC CP 60	4	45	14.0	90	115	10
HDSPC CP 70	5	60	18.0	122	152	10
HDSPC CP 80	6	80	22.0	168	205	15
HDSPC CP 90	7	90	28.0	205	250	15
HDSPC CP 100	8	120	34.0	265	322	25

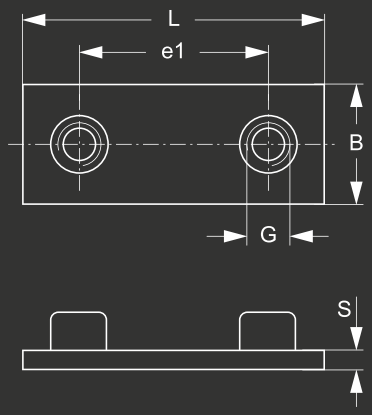
SW, S1, S2 = Width across flats

HDSPC BP 30-100

Welded on base plate for single pipe clamp



Design:	For single pipe clamps
Series:	Heavy
Standard:	DIN 3015-2
Material:	Steel
Surface:	Phosphate treated



Identification	Clamp size	B mm	e1 mm	G	L mm	S mm
HDSPC BP 30	1	30	33	M 10	73	8
HDSPC BP 40	2	30	45	M 10	84	8
HDSPC BP 50	3	30	60	M 10	100	8
HDSPC BP 60	4	45	90	M 12	140	10
HDSPC BP 70	5	60	122	M 16	180	10
HDSPC BP 80	6	80	168	M 20	225	15
HDSPC BP 90	7	90	205	M 24	270	15
HDSPC BP 100	8	120	265	M 30	340	25

Product Versions:
HDSPC BP 30-100 V4 - Welded on base plate for single pipe clamp, Stainless steel 1.4571
HDSPC BP 30-100 VZ - Welded on base plate for single pipe clamp, Steel, Electro galvanised

Additional element for following products:
C - Configuration of group C

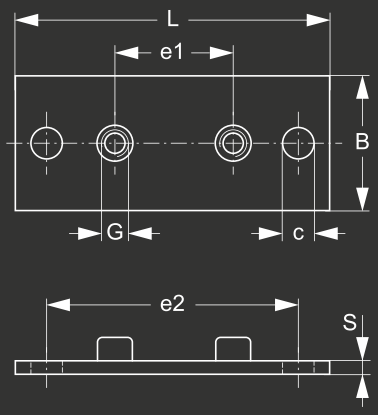
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HDSPC BPL 30-100

Welded on and screw-on base plate, long



Design:	For single pipe clamps
Series:	Heavy
Standard:	DIN 3015-2
Material:	Steel
Surface:	Phosphate treated



Identification	Clamp size	B mm	c mm	e1 mm	e2 mm	G	L mm	S mm
HDSPC BPL 30	1	30	11	33	85	M 10	113	8
HDSPC BPL 40	2	30	11	45	97	M 10	125	8
HDSPC BPL 50	3	30	11	60	112	M 10	140	8
HDSPC BPL 60	4	45	14	90	160	M 12	190	10
HDSPC BPL 70	5	60	18	122	205	M 16	240	10
HDSPC BPL 80	6	80	22	168	270	M 20	310	15
HDSPC BPL 90	7	90	26	205	320	M 24	370	15
HDSPC BPL 100	8	120	33	265	390	M 30	450	25

Additional element for following products:
C - Configuration of group C

09



HYDRAULIC CARTRIDGE VALVES

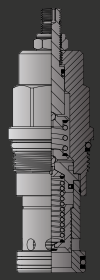
Hydraulic cartridge valves are precision screw-in components used to control flow, pressure, and directional functions within hydraulic systems. Designed for installation into machined cavities, they provide reliable performance in high-pressure applications while reducing external plumbing.

These valves are commonly used in hydraulic power units, mobile machinery, and industrial equipment where compact design and dependable control are required. Available in a range of configurations, cartridge valves are engineered for durability, sealing integrity, and consistent operation under demanding conditions.

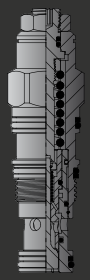
Our cartridge valves are manufactured to the most stringent global accuracy standards and feature the renowned MotusCoat™ for superior protection and performance.

HYDRAULIC CARTRIDGE VALVES

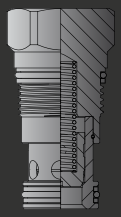
Relief Valve
520–525



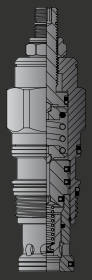
Counterbalance Valve
526–539



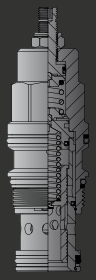
Check Valve
540–546



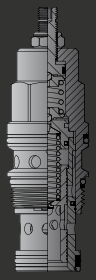
Sequence Valve
547–551



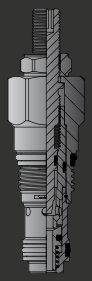
Reducing Valve
552



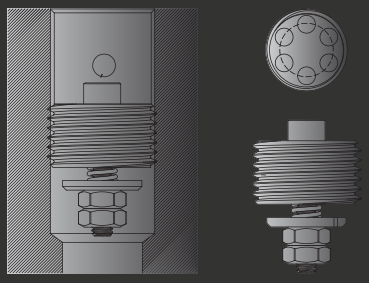
Reducing / Relieving Valve
553–555



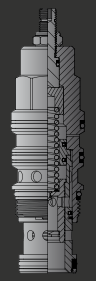
Flow Control Valve
556–560



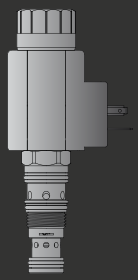
Hose Burst Protection Valve
561–562



Priority Flow Control Valve
563–564



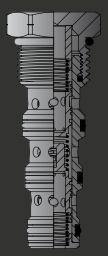
Reducing / Relieving Valve
565–566



Shuttle Valve
567–571

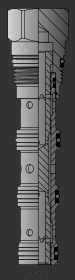


Flow Divider / Combiner Valve
572–573

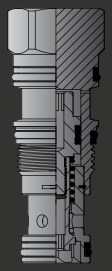


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Flow Divider Valve
574



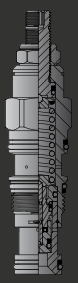
Logic Element Valve
575–576



Pilot Capacity Proportional Relief Valve
577–578



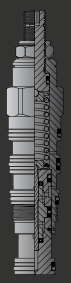
Accumulator Sense, Pump Unload Valve
579



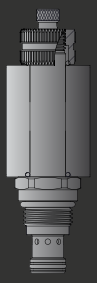
Air Bleed Start-Up Valve
580



Directional Valve
581–585

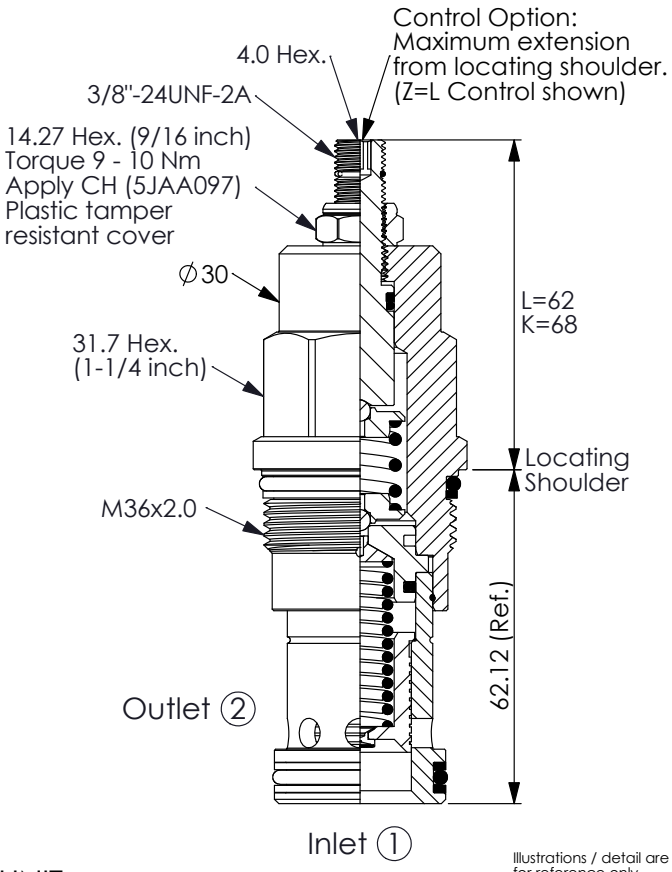


Solenoid Operated Valve
586–587



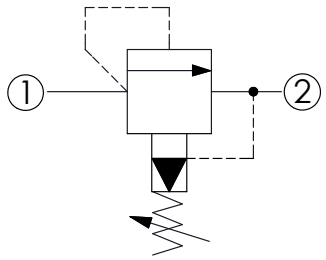
Relief Valve
(Pilot Operated Balanced Piston)

Ordering Code:	RP-16A-X-Y-Z



UNIT:mm

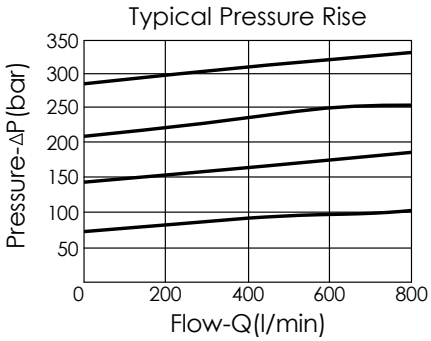
Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

Max. Operating pressure:	350	bar
Rated flow:	380	l/min
Cavity-Tooling:	16A-2	
Installation torque:	200 - 215	Nm
Weight:	0.53 (**Z**=L)	kg

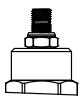
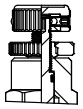
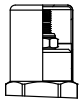
Will accept maximum pressure at port ②; suitable for use in cross port relief circuits. If used in cross port relief circuits, consider spool leakage.



X	OPERATION
20	① to ② (P to T)

- Response Time-Typical (10 ms)
- Maximum Leakage Approximately (66 cc/min./70 bar)

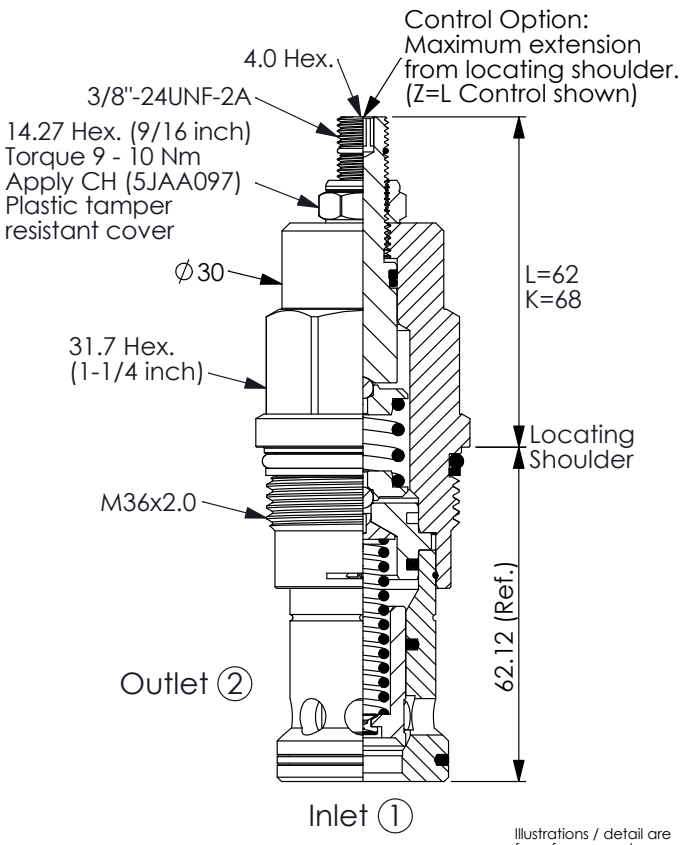
Y	SPRINGS ADJUSTMENT RANGES
A	7 - 210 bar (70 bar Standard Setting)
B	3.5 - 105 bar (70 bar Standard Setting)
C	10.5 - 420 bar (70 bar Standard Setting)
D	1.7 - 55 bar (28 bar Standard Setting)
E	1.7 - 28 bar (14 bar Standard Setting)
N	4 - 55 bar (28 bar Standard Setting)
Q	4 - 28 bar (14 bar Standard Setting)
W	10.5 - 315 bar (70 bar Standard Setting)

Z	OPTIONS	
L	Leakproof hex. socket screw.	
LP	Leakproof hex. socket screw. With stainless steel external metal components	
K	Handknob with Lock Knob. (Order Code: 6ZAK001)	
C	Stainless Steel Tamper Resistant Cover.	

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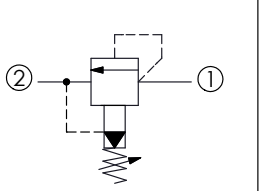
Relief Valve
(Pilot Operated Balanced Poppet)

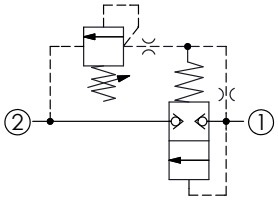
Ordering Code:	**RP-16A-X-Y-Z**



UNIT:mm

Illustrations / detail are for reference only. Data subject to change.

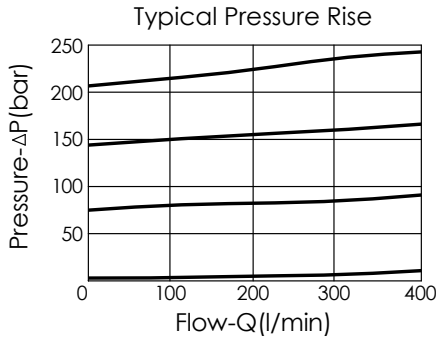




TECHNICAL DATA

Max. Operating pressure:	350	bar
Rated flow:	380	l/min
Cavity-Tooling:	16A-2	
Installation torque:	200 - 215	Nm
Weight:	0.55 (**Z**=L)	kg

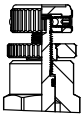
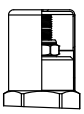
Will accept maximum pressure at port ②; suitable for use in cross port relief circuits.



X	OPERATION	
2G	Balanced Poppet	

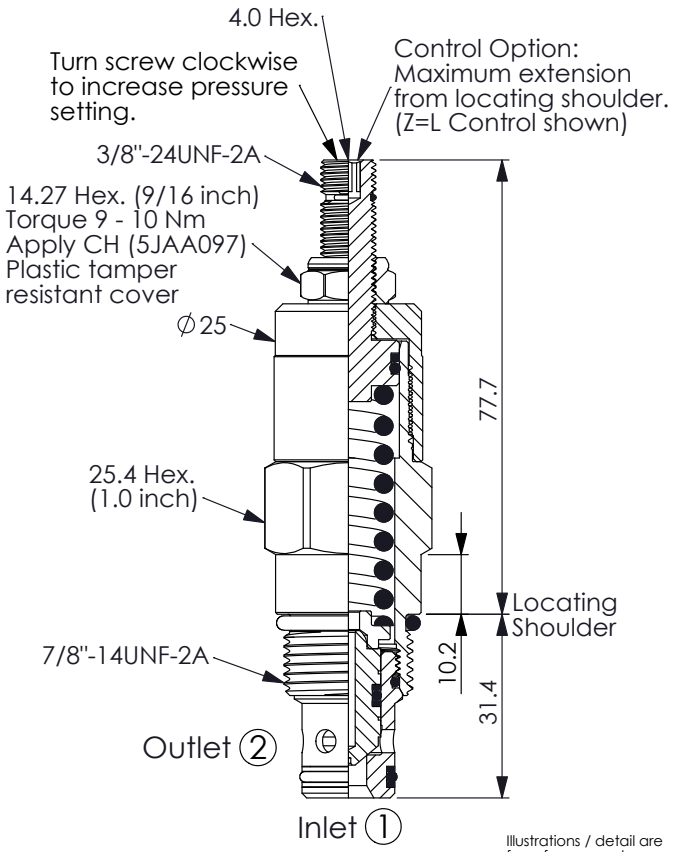
- Response Time-Typical (7 ms)
- Maximum Leakage Approximately (0.7 cc/min., main stage leakage at reseat)
- If the pressure drop of relief valve is high, it easily occurs cavitation which cause noise and manifold erosion. In order to improve this situation, please select balanced poppet structure.

Y	SPRINGS	
	ADJUSTMENT RANGES	
A	7 - 210 bar (70 bar Standard Setting)	
B	3.5 - 105 bar (70 bar Standard Setting)	
C	10.5 - 420 bar (70 bar Standard Setting)	
N	4 - 55 bar (28 bar Standard Setting)	
Q	4 - 28 bar (14 bar Standard Setting)	
W	10.5 - 315 bar (70 bar Standard Setting)	

Z	OPTIONS		
L	Leakproof hex. socket screw.		
K	Handknob with Lock Knob. (Order Code: 6ZAK001)		
C	Stainless Steel Tamper Resistant Cover.		

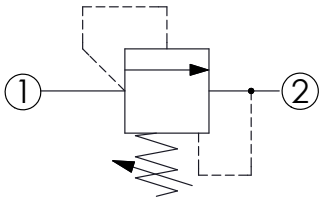
Relief Valve
(Direct Acting, Poppet)

Ordering Code:	RD-10W-X-Y-Z



UNIT:mm

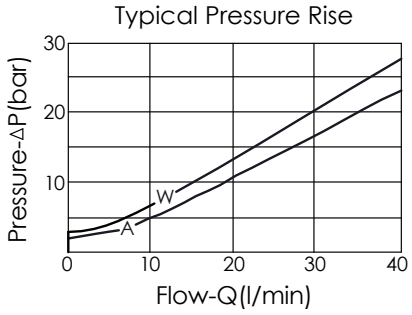
Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

Max. Operating pressure:	250	bar
Rated flow:	40	l/min
Cavity-Tooling:	10W-2	
Installation torque:	35 - 45	Nm
Weight:	0.23	kg

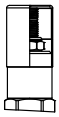
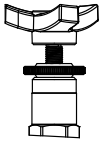
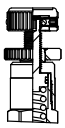
Will accept maximum pressure at port ② ; suitable for use in cross port relief circuits.



Y	PRESSURE SETTING	
A	17 - 210 bar (70 bar Standard Setting)	
W	17 - 250 bar (70 bar Standard Setting)	

X	OPERATION	
20	① to ② (P to T)	

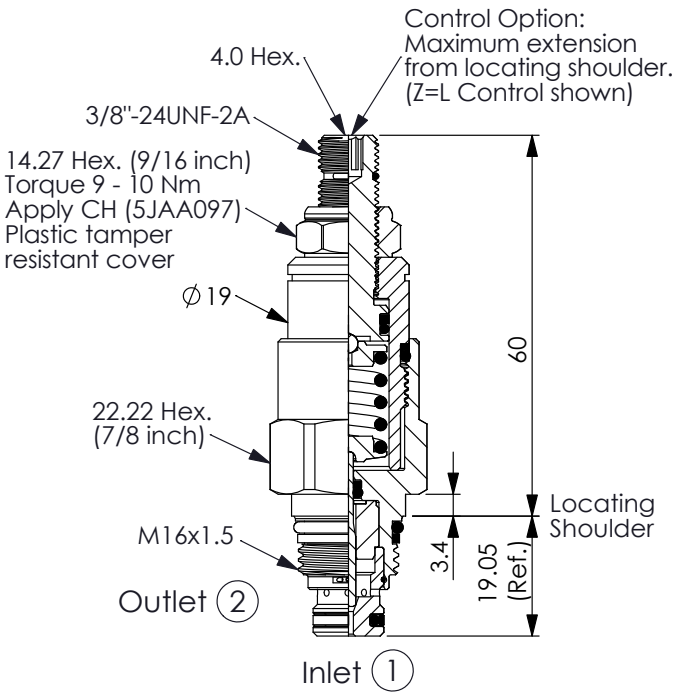
- Response Time-Typical (2 ms)
- Maximum Leakage Approximately (5 drops/min. to 85% of nominal setting)
- Dirt tolerant

Z	OPTIONS		
L	Leakproof hex. socket screw.		
C	Stainless Steel Tamper Resistant Cover.		
T	Three-winged Handknob Kit.		
K	Handknob with Lock Knob. (Order Code: 6ZAK001)		

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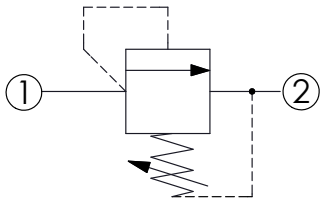
Relief Valve
(Direct Acting, Pilot Stage)

Ordering Code:	RB-8A-X-Y-Z



UNIT:mm

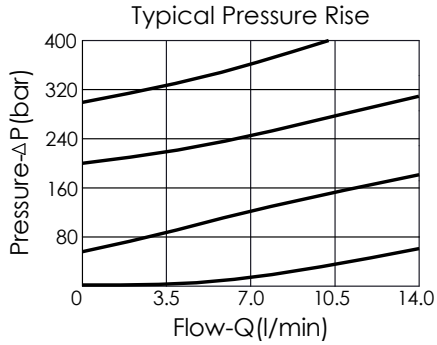
Illustrations / detail are for reference only. Data subject to change.



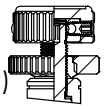
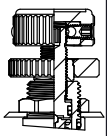
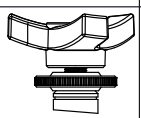
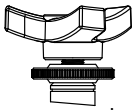
TECHNICAL DATA		
Max. Operating pressure:	350	bar
Rated flow:	10	l/min
Cavity-Tooling:	8A-2	
Installation torque:	27 - 33	Nm
Weight:	0.12 (**Z**=L) 0.14 (**Z**=KF)	kg

X	OPERATION
20	(1) to (2) (P to T)

- Response Time-Typical (2 ms)
- Maximum Leakage Approximately (1 cc/min./70 bar)

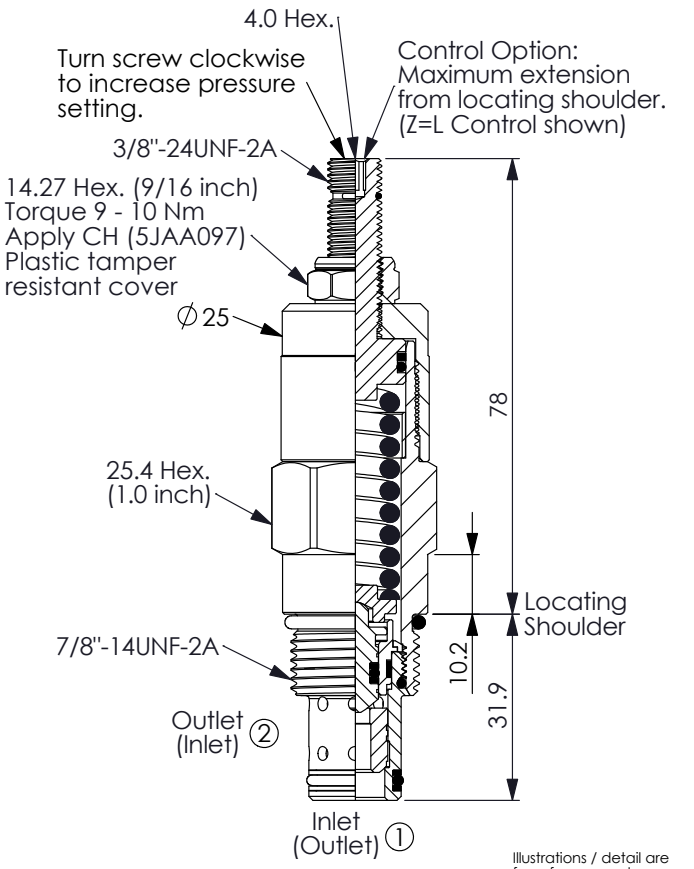


Y	PRESSURE SETTING
A	1.7 - 210 bar (70 bar Standard Setting)
B	1.7 - 105 bar (70 bar Standard Setting)
C	1.7 - 420 bar (70 bar Standard Setting)
D	1.7 - 55 bar (28 bar Standard Setting)
E	1.7 - 28 bar (14 bar Standard Setting)
W	1.7 - 315 bar (70 bar Standard Setting)

Z	OPTIONS	
L	Leakproof hex. socket screw.	
LP	Leakproof hex. socket screw. With stainless steel external metal components	
K	Handknob with Lock Knob. (Order Code: 6ZAK001)	
KF	Handknob with Panel Mount.	
T	Three-winged Handknob Kit.	
TP	Three-winged Handknob Kit. With stainless steel external metal components	

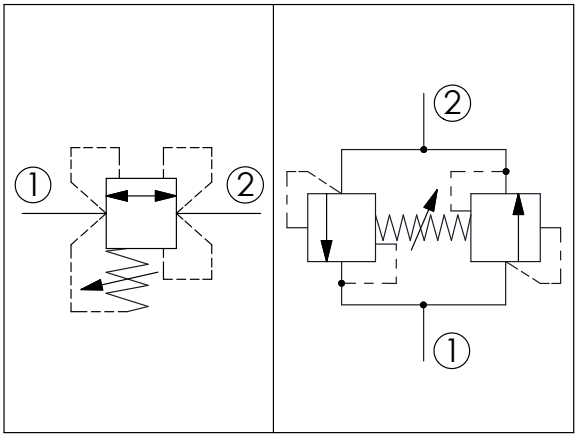
Relief Valve
(Bi-Directional Direct-Acting)

Ordering Code: **CR-10W-X-Y-Z**

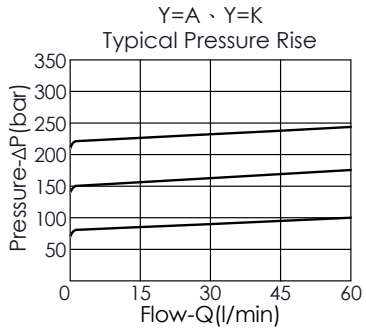


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



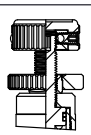
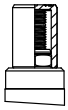
TECHNICAL DATA		
Max.Operating pressure:	350	bar
Rated flow:	60	l/min
Cavity-Tooling:	10W-2	
Installation torque:	35 - 45	Nm
Weight:	0.236 (**Z**=L)	kg



X	OPERATION	
20	Standard Type	

- Response Time-Typical (2 ms)
- Maximum Leakage Approximately (0.7 cc/min.)
- Dirt tolerant

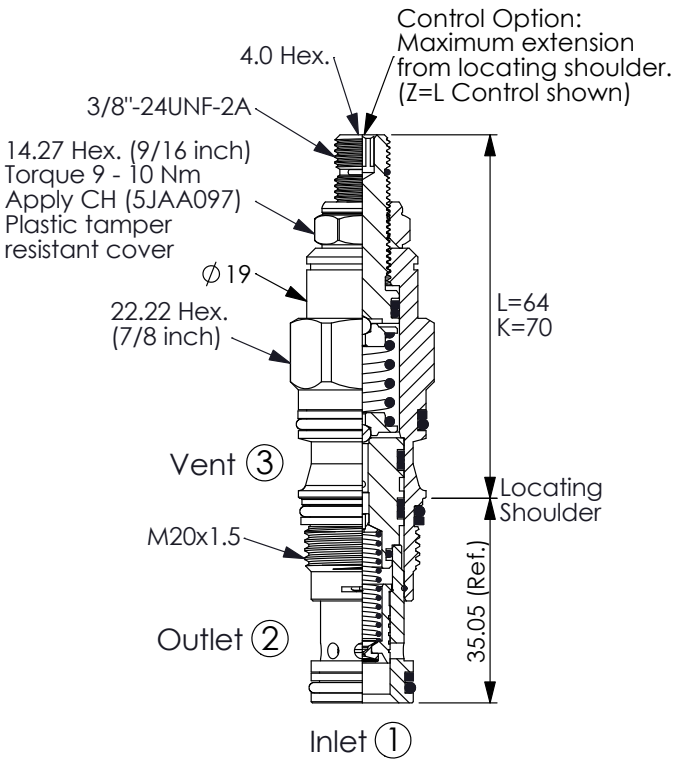
Y	SPRINGS	
	ADJUSTMENT RANGES	
A	160 - 240 bar (180 bar Standard Setting)	
K	14 - 168 bar (80 bar Standard Setting)	
W	105 - 350 bar (105 bar Standard Setting)	

Z	OPTIONS		
L	Leakproof hex. socket screw.		
K	Handknob with Lock Knob. (Order Code: 6ZAK001)		
CH	Plastic Tamper Resistant Cover of General Type Hex. Nut		

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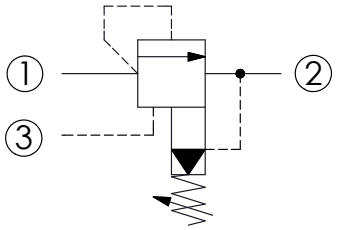
Relief Valve
(Fast-Acting, Ventable)

Ordering Code:	**RV-11A-X-Y-Z-85**



UNIT:mm

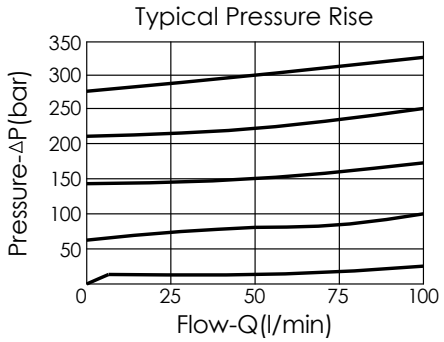
Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

Max. Operating pressure:	350	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.15 (**Z**=L)	kg

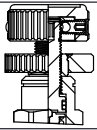
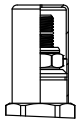
Will accept maximum pressure at port ② but it is necessary to install double back-up rings to valve for cross port relief circuit application. Leakage of spool should be concerned.
If you have any questions, please contact **Motus** sales department.



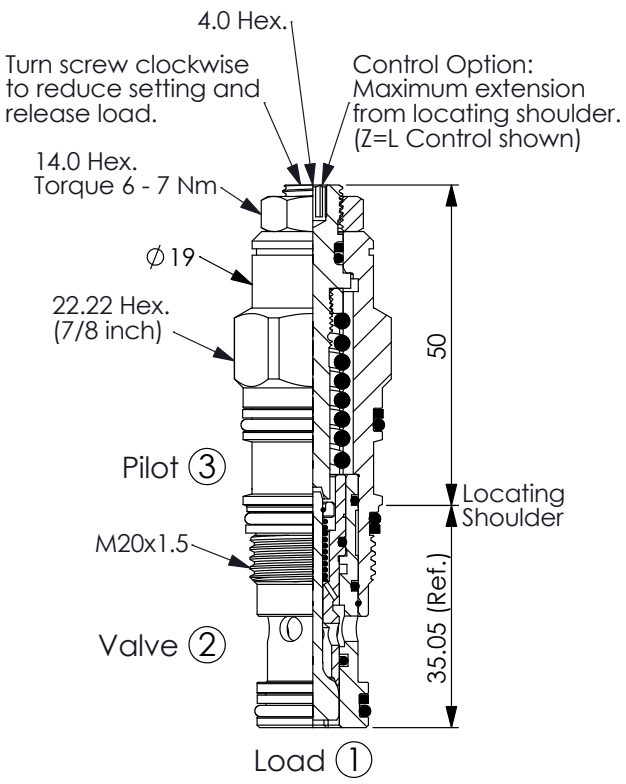
X	OPERATION	
30	Standard Type	

- Response Time-Typical (10 ms)
- Maximum Leakage Approximately (33 cc/min./70 bar)

Y	SPRINGS	
	ADJUSTMENT RANGES	
A	7 - 210 bar (70 bar Standard Setting)	
B	3.5 - 105 bar (70 bar Standard Setting)	
C	10.5 - 420 bar (70 bar Standard Setting)	
D	1.7 - 55 bar (28 bar Standard Setting)	
E	1.7 - 28 bar (14 bar Standard Setting)	
H	2 - 210 bar (70 bar Standard Setting)	
W	10.5 - 315 bar (70 bar Standard Setting)	

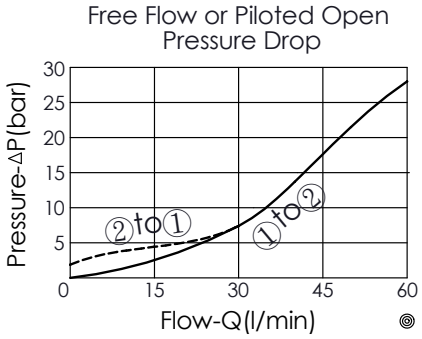
Z	OPTIONS		
L	Leakproof hex. socket screw.		
K	Handknob with Lock Knob. (Order Code: 6ZAK001)		
C	Stainless Steel Tamper Resistant Cover.		

Ordering Code:	CB-11A-X-Y-Z



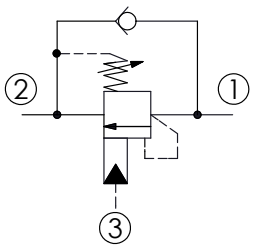
UNIT:mm

Illustrations / detail are for reference only. Data subject to change.

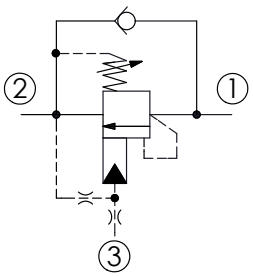


Y	SPRINGS	
	ADJUSTMENT RANGES(1.7 bar Cracking Pressure)	
H	70 - 280 bar (210 bar Standard Setting)	
I	25 - 105 bar (70 bar Standard Setting)	
	SPECIAL PURPOSES(0.3 bar Cracking Pressure)	
A	70 - 280 bar (210 bar Standard Setting)	
B	25 - 105 bar (70 bar Standard Setting)	
E	16 - 55 bar (25 bar Standard Setting)	

X=33、3A、3C (standard)



X=3Q (with bleed through pilot)



TECHNICAL DATA		
Max. Setting:	280	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.153 (**Z**=L)	kg

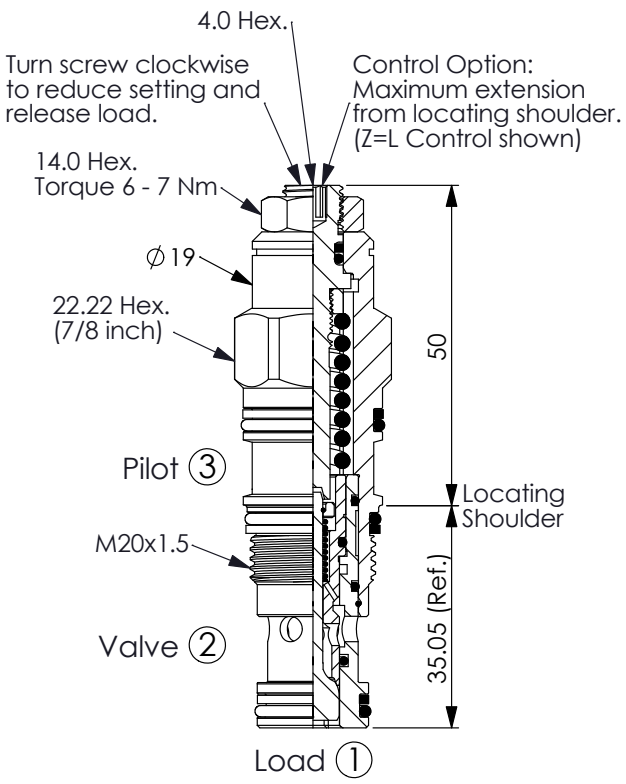
Pressure Setting:
Setting should be 1.3 times maximum load induced pressure.
(We suggest when the Max. setting pressure is 280 bar, the load pressure has to be lower than 215 bar.)

X	PILOT RATIO
33	3 : 1
3A	1.5 : 1 (with sealed pilot)
3C	3 : 1 (with sealed pilot)
3Q	2 : 1 (with bleed through pilot)

Z	OPTIONS	
L	Leakproof hex. socket screw.	
LP	Leakproof hex. socket screw. With stainless steel external metal components	
CA	Plastic Tamper Resistant Cover (Order Code:5JAA094)	
T	Three-winged Handknob Kit.	

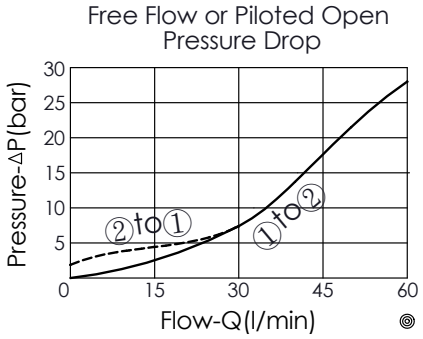
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Ordering Code:	CB-11A-X-Y-Z



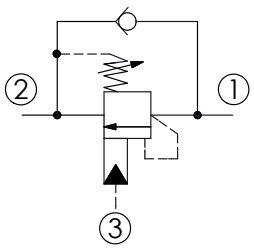
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Illustrations / detail are for reference only. Data subject to change.

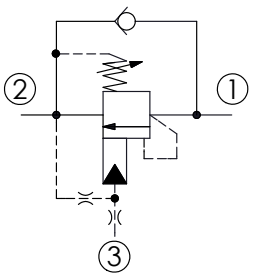


Y	SPRINGS	
	ADJUSTMENT RANGES(1.7 bar Cracking Pressure)	
H	70 - 280 bar (210 bar Standard Setting)	
I	25 - 105 bar (70 bar Standard Setting)	
	SPECIAL PURPOSES(0.3 bar Cracking Pressure)	
A	70 - 280 bar (210 bar Standard Setting)	
B	25 - 105 bar (70 bar Standard Setting)	
E	16 - 55 bar (25 bar Standard Setting)	

X=33、3A、3C (standard)



X=3Q (with bleed through pilot)



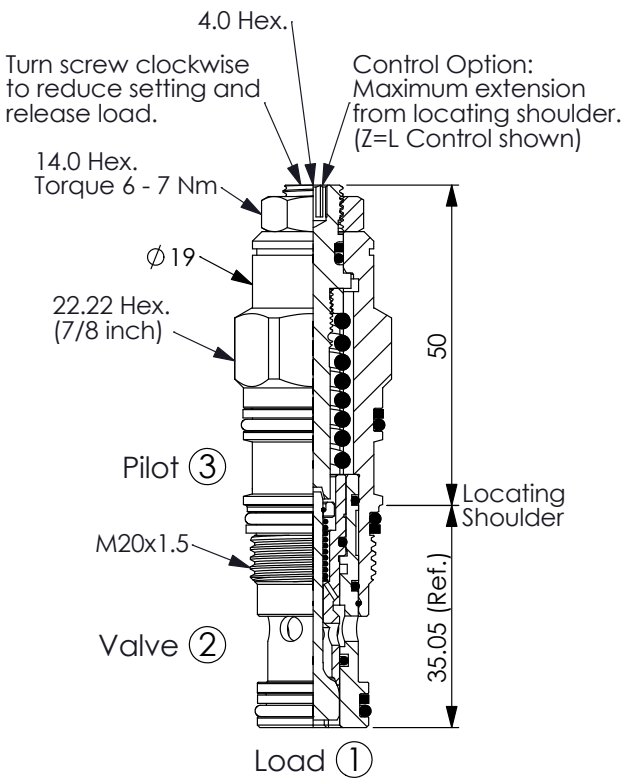
TECHNICAL DATA		
Max. Setting:	280	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.153 (**Z**=L)	kg

Pressure Setting:
Setting should be 1.3 times maximum load induced pressure.
(We suggest when the Max. setting pressure is 280 bar, the load pressure has to be lower than 215 bar.)

X	PILOT RATIO
33	3 : 1
3A	1.5 : 1 (with sealed pilot)
3C	3 : 1 (with sealed pilot)
3Q	2 : 1 (with bleed through pilot)

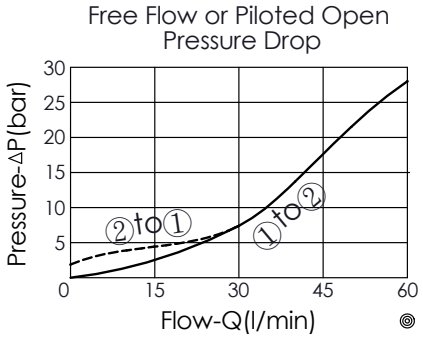
Z	OPTIONS	
L	Leakproof hex. socket screw.	
LP	Leakproof hex. socket screw. With stainless steel external metal components	
CA	Plastic Tamper Resistant Cover (Order Code:5JAA094)	
T	Three-winged Handknob Kit.	

Ordering Code:	CB-11A-X-Y-Z



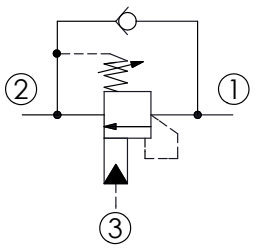
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Illustrations / detail are for reference only. Data subject to change.

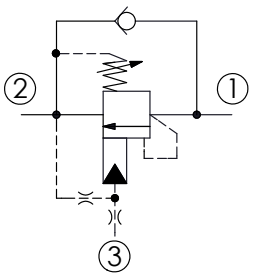


Y	SPRINGS	
	ADJUSTMENT RANGES(1.7 bar Cracking Pressure)	
H	70 - 280 bar (210 bar Standard Setting)	
I	25 - 105 bar (70 bar Standard Setting)	
	SPECIAL PURPOSES(0.3 bar Cracking Pressure)	
A	70 - 280 bar (210 bar Standard Setting)	
B	25 - 105 bar (70 bar Standard Setting)	
E	16 - 55 bar (25 bar Standard Setting)	

X=33、3A、3C (standard)



X=3Q (with bleed through pilot)



TECHNICAL DATA		
Max. Setting:	280	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.153 (**Z**=L)	kg

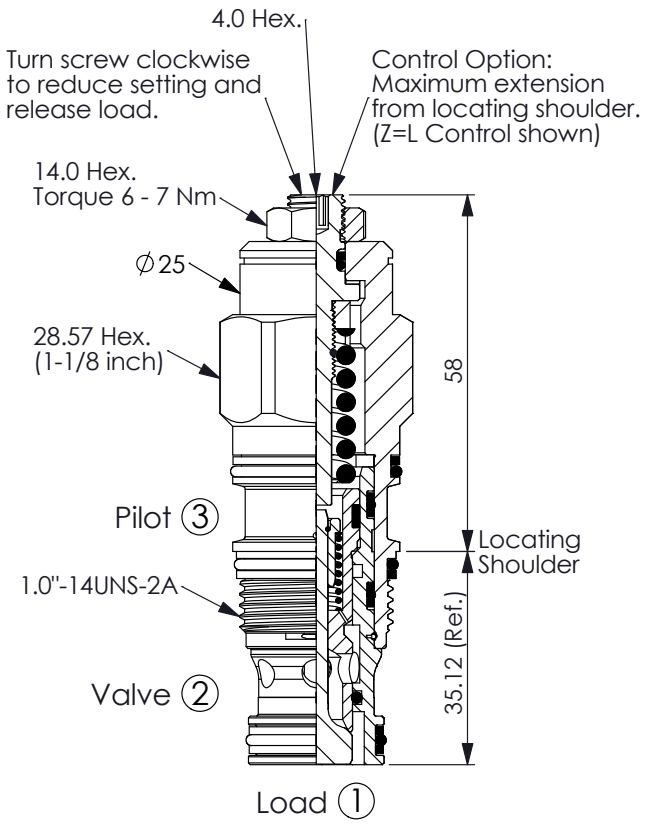
Pressure Setting:
Setting should be 1.3 times maximum load induced pressure.
(We suggest when the Max. setting pressure is 280 bar, the load pressure has to be lower than 215 bar.)

X	PILOT RATIO	
33	3 : 1	
3A	1.5 : 1 (with sealed pilot)	
3C	3 : 1 (with sealed pilot)	
3Q	2 : 1 (with bleed through pilot)	

Z	OPTIONS	
L	Leakproof hex. socket screw.	
LP	Leakproof hex. socket screw. With stainless steel external metal components	
CA	Plastic Tamper Resistant Cover (Order Code:5JAA094)	
T	Three-winged Handknob Kit.	

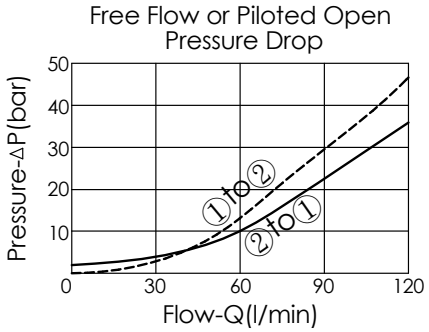
MOTUS. NZ 0800 668 874 | AU 1800 839 249 | US & CAN 437 245 6179 | sales@motushydraulics.com | motushydraulics.com

Ordering Code:	CB-2A-X-Y-Z



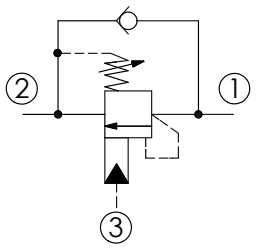
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Illustrations / detail are for reference only. Data subject to change.

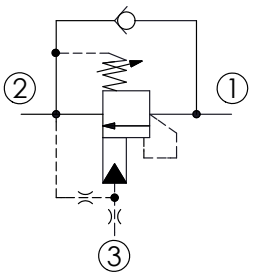


Y	SPRINGS	
	ADJUSTMENT RANGES(1.7 bar Cracking Pressure)	
H	70 - 280 bar (210 bar Standard Setting)	
I	25 - 105 bar (70 bar Standard Setting)	
	SPECIAL PURPOSES(0.3 bar Cracking Pressure)	
A	70 - 280 bar (210 bar Standard Setting)	
B	25 - 105 bar (70 bar Standard Setting)	
E	16 - 55 bar (25 bar Standard Setting)	

X=33、3A、3C (standard)



X=3Q (with bleed through pilot)



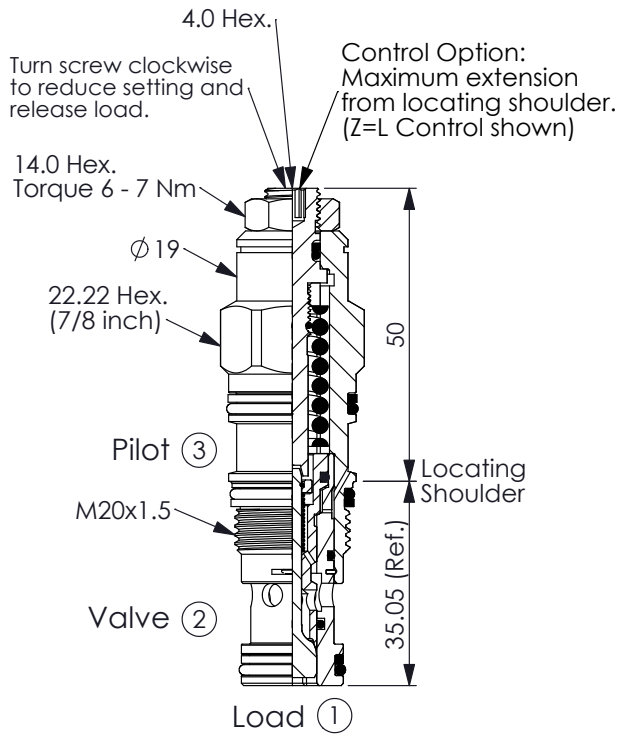
TECHNICAL DATA		
Max. Setting:	280	bar
Rated flow:	120	l/min
Cavity-Tooling:	2A-3	
Installation torque:	60 - 70	Nm
Weight:	0.277 (**Z**=L)	kg

Pressure Setting:
Setting should be 1.3 times maximum load induced pressure.
(We suggest when the Max. setting pressure is 280 bar, the load pressure has to be lower than 215 bar.)

X	PILOT RATIO
33	3 : 1
3A	1.5 : 1 (with sealed pilot)
3C	3 : 1 (with sealed pilot)
3Q	2 : 1 (with bleed through pilot)

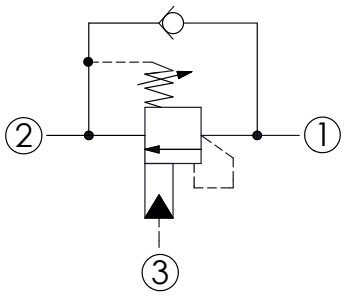
Z	OPTIONS	
L	Leakproof hex. socket screw.	
LP	Leakproof hex. socket screw. With stainless steel external metal components	
C	Stainless Steel Tamper Resistant Cover.	
CA	Plastic Tamper Resistant Cover (Order Code:5JAA099)	

Ordering Code:	CB-11A-X-Y-Z



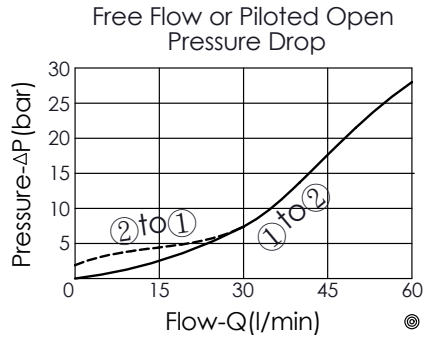
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Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA		
Max. Setting:	350	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.153 (**Z**=L)	kg

Pressure Setting:
Setting should be 1.3 times maximum load induced pressure.
(We suggest when the Max. setting pressure is 350 bar, the load pressure has to be lower than 270 bar.)

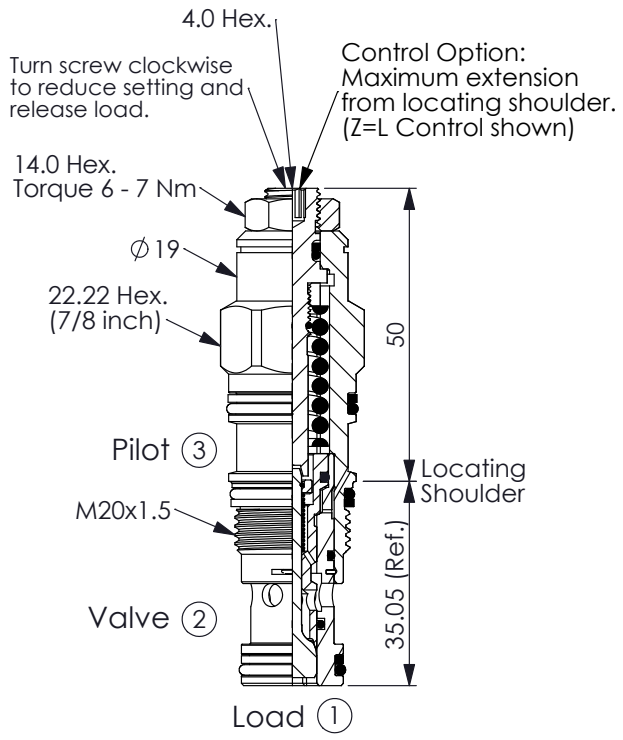


X	PILOT RATIO
30	10 : 1
33	3 : 1 (Only Y=J and Y=C)
34	4.5 : 1
3B	2.3 : 1 (with sealed pilot)
3D	4.5 : 1 (with sealed pilot)
3J	10 : 1 (with sealed pilot)
3P	16 : 1 (with sealed pilot)

Y	SPRINGS
	ADJUSTMENT RANGES(1.7 bar Cracking Pressure)
J	140 - 350 bar (210 bar Standard Setting)
K	70 - 175 bar (140 bar Standard Setting)
	SPECIAL PURPOSES(0.3 bar Cracking Pressure)
C	140 - 350 bar (210 bar Standard Setting)
D	70 - 175 bar (140 bar Standard Setting)

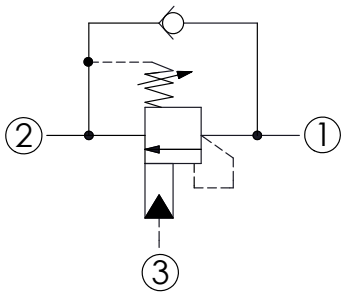
Z	OPTIONS
L	Leakproof hex. socket screw.
LP	Leakproof hex. socket screw. With stainless steel external metal components
CA	Plastic Tamper Resistant Cover (Order Code:5JAA094)

Ordering Code:	CB-11A-X-Y-Z



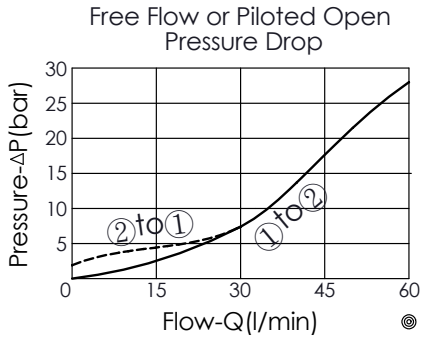
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Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA		
Max. Setting:	350	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.153 (**Z**=L)	kg

Pressure Setting:
Setting should be 1.3 times maximum load induced pressure.
(We suggest when the Max. setting pressure is 350 bar, the load pressure has to be lower than 270 bar.)

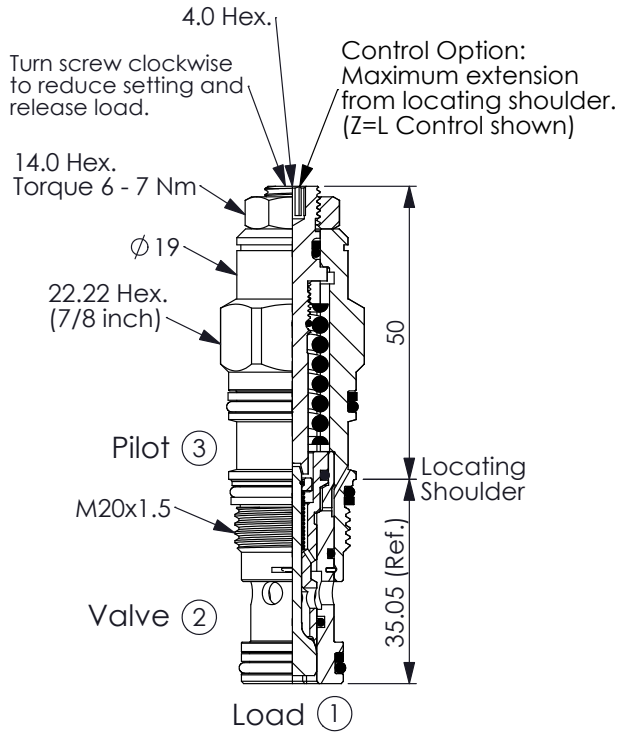


X	PILOT RATIO
30	10 : 1
33	3 : 1 (Only Y=J and Y=C)
34	4.5 : 1
3B	2.3 : 1 (with sealed pilot)
3D	4.5 : 1 (with sealed pilot)
3J	10 : 1 (with sealed pilot)
3P	16 : 1 (with sealed pilot)

Y	SPRINGS
	ADJUSTMENT RANGES(1.7 bar Cracking Pressure)
J	140 - 350 bar (210 bar Standard Setting)
K	70 - 175 bar (140 bar Standard Setting)
	SPECIAL PURPOSES(0.3 bar Cracking Pressure)
C	140 - 350 bar (210 bar Standard Setting)
D	70 - 175 bar (140 bar Standard Setting)

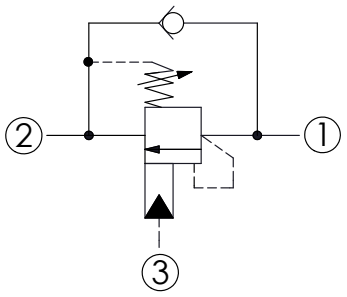
Z	OPTIONS
L	Leakproof hex. socket screw.
LP	Leakproof hex. socket screw. With stainless steel external metal components
CA	Plastic Tamper Resistant Cover (Order Code:5JAA094)

Ordering Code:	CB-11A-X-Y-Z



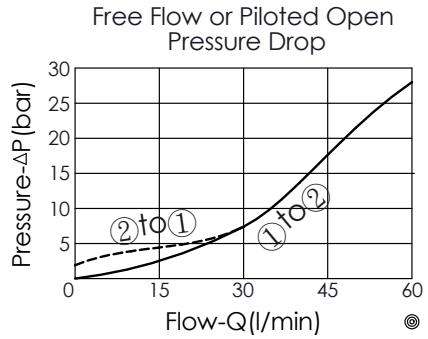
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Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA		
Max. Setting:	350	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.153 (**Z**=L)	kg

Pressure Setting:
Setting should be 1.3 times maximum load induced pressure.
(We suggest when the Max. setting pressure is 350 bar, the load pressure has to be lower than 270 bar.)

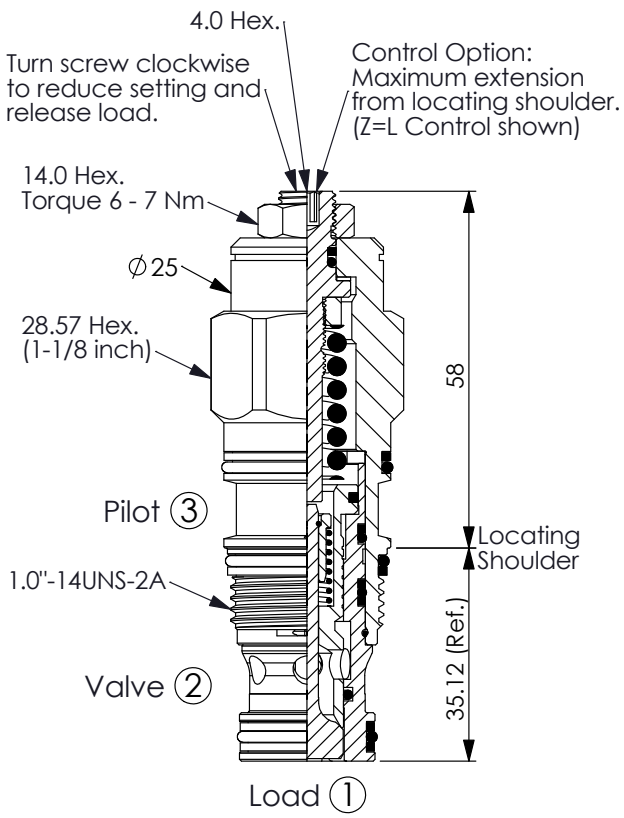


X	PILOT RATIO
30	10 : 1
33	3 : 1 (Only Y=J and Y=C)
34	4.5 : 1
3B	2.3 : 1 (with sealed pilot)
3D	4.5 : 1 (with sealed pilot)
3J	10 : 1 (with sealed pilot)
3P	16 : 1 (with sealed pilot)

Y	SPRINGS
	ADJUSTMENT RANGES(1.7 bar Cracking Pressure)
J	140 - 350 bar (210 bar Standard Setting)
K	70 - 175 bar (140 bar Standard Setting)
	SPECIAL PURPOSES(0.3 bar Cracking Pressure)
C	140 - 350 bar (210 bar Standard Setting)
D	70 - 175 bar (140 bar Standard Setting)

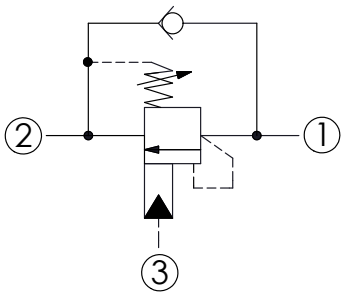
Z	OPTIONS
L	Leakproof hex. socket screw.
LP	Leakproof hex. socket screw. With stainless steel external metal components
CA	Plastic Tamper Resistant Cover (Order Code:5JAA094)

Ordering Code:	CB-2A-X-Y-Z



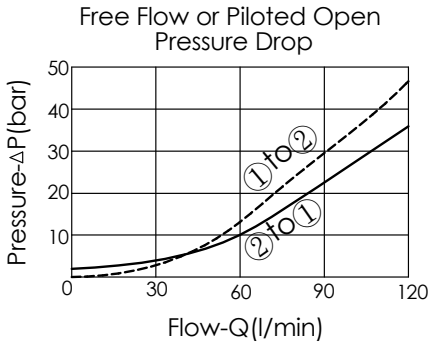
UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA		
Max. Setting:	350	bar
Rated flow:	120	l/min
Cavity-Tooling:	2A-3	
Installation torque:	60 - 70	Nm
Weight:	0.277 (**Z**=L)	kg

Pressure Setting:
Setting should be 1.3 times maximum load induced pressure.
(We suggest when the Max. setting pressure is 350 bar, the load pressure has to be lower than 270 bar.)

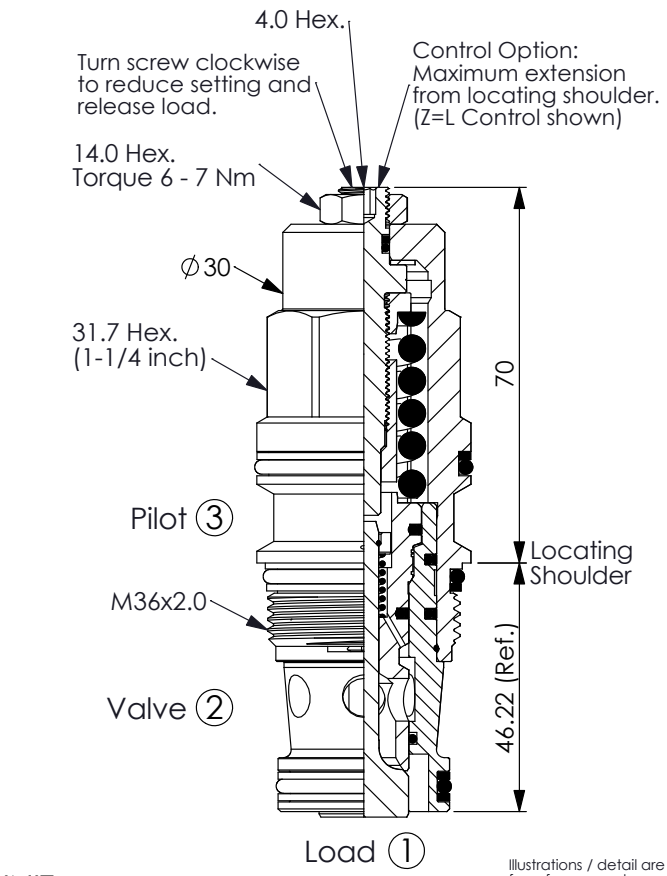


X	PILOT RATIO	
30	10 : 1	
34	4.5 : 1	
3B	2.3 : 1 (with sealed pilot)	
3D	4.5 : 1 (with sealed pilot)	

Y	SPRINGS	
	ADJUSTMENT RANGES(1.7 bar Cracking Pressure)	
J	140 - 350 bar (210 bar Standard Setting)	
K	70 - 175 bar (140 bar Standard Setting)	
	SPECIAL PURPOSES(0.3 bar Cracking Pressure)	
C	140 - 350 bar (210 bar Standard Setting)	
D	70 - 175 bar (140 bar Standard Setting)	

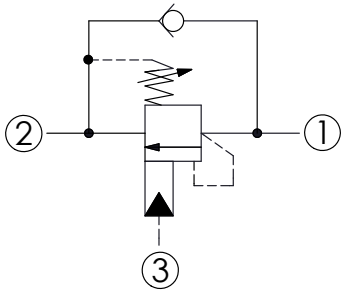
Z	OPTIONS	
L	Leakproof hex. socket screw. 	
LP	Leakproof hex. socket screw. With stainless steel external metal components 	
CA	Plastic Tamper Resistant Cover (Order Code:5JAA099) 	

Ordering Code:	CB-17A-X-Y-Z



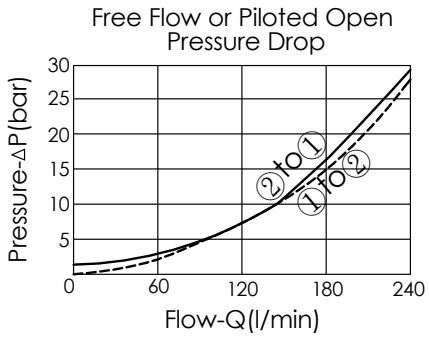
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Illustrations / detail are for reference only. Data subject to change.



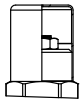
TECHNICAL DATA		
Max. Setting:	350	bar
Rated flow:	240	l/min
Cavity-Tooling:	17A-3	
Installation torque:	200 - 215	Nm
Weight:	0.60 (**Z**=L)	kg

Pressure Setting:
Setting should be 1.3 times maximum load induced pressure.
(We suggest when the Max. setting pressure is 350 bar, the load pressure has to be lower than 270 bar.)



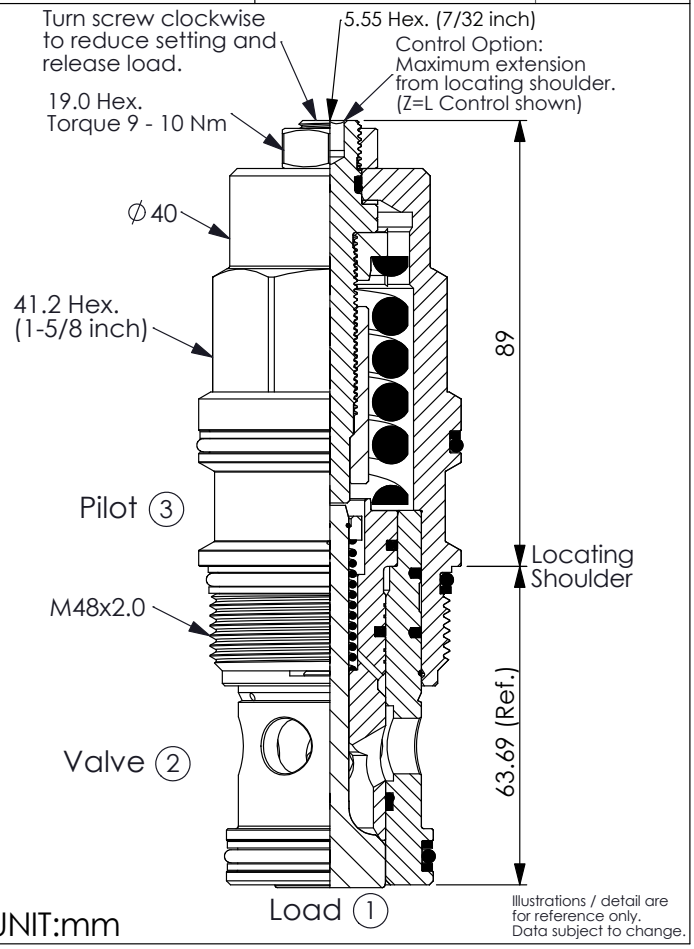
X	PILOT RATIO	
3B	2.3 : 1 (with sealed pilot)	
3D	4.5 : 1 (with sealed pilot)	
3J	10 : 1 (with sealed pilot)	

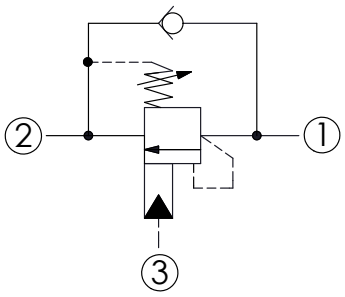
Y	SPRINGS	
	ADJUSTMENT RANGES(1.7 bar Cracking Pressure)	
J	140 - 350 bar (210 bar Standard Setting)	
K	70 - 175 bar (140 bar Standard Setting)	
P	20 - 105 bar (70 bar Standard Setting)	
	SPECIAL PURPOSES(0.3 bar Cracking Pressure)	
C	140 - 350 bar (210 bar Standard Setting)	
D	70 - 175 bar (140 bar Standard Setting)	
R	20 - 105 bar (70 bar Standard Setting)	

Z	OPTIONS	
L	Leakproof hex. socket screw. 	
LP	Leakproof hex. socket screw. With stainless steel external metal components 	
C	Stainless Steel Tamper Resistant Cover. 	

MOTUS. NZ 0800 668 874 | AU 1800 839 249 | US & CAN 437 245 6179 | sales@motushydraulics.com | motushydraulics.com

Ordering Code: **CB-19A-X-Y-Z**

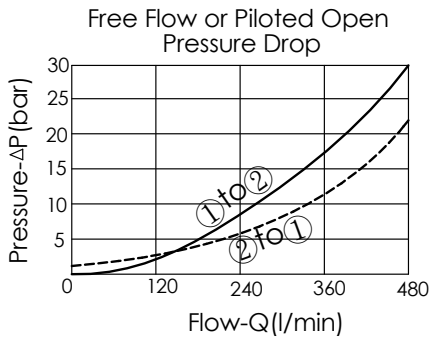




TECHNICAL DATA		
Max. Setting:	350	bar
Rated flow:	480	l/min
Cavity-Tooling:	19A-3 (19AB-3)	
Installation torque:	465 - 500	Nm
Weight:	1.40 (**Z**=L,LP)	kg

Pressure Setting:

Setting should be 1.3 times maximum load induced pressure.
(We suggest when the Max. setting pressure is 350 bar, the load pressure has to be lower than 270 bar.)



X	PILOT RATIO
3B	2.3 : 1 (with sealed pilot)
3D	4.5 : 1 (with sealed pilot)
3J	10 : 1 (with sealed pilot)

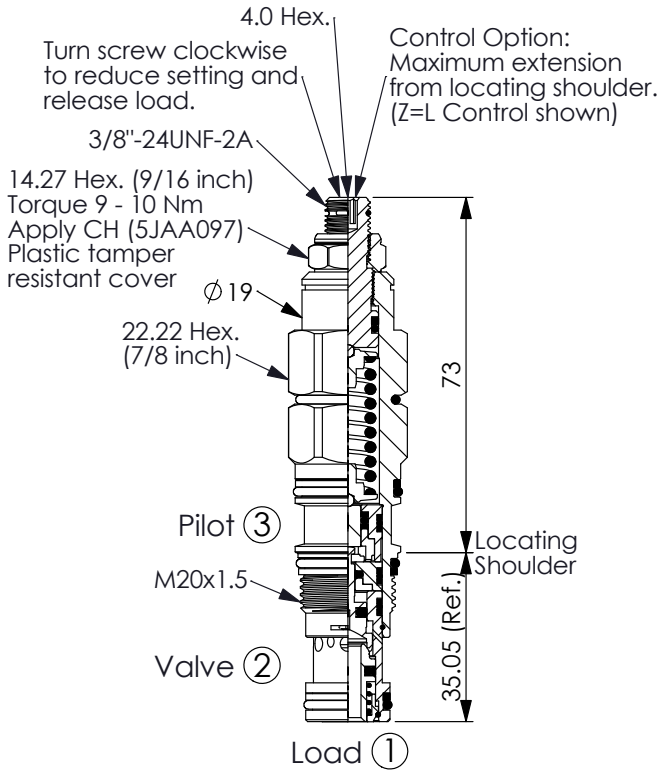
Y	SPRINGS
	ADJUSTMENT RANGES(1.7 bar Cracking Pressure)
J	140 - 350 bar (210 bar Standard Setting)
K	70 - 175 bar (140 bar Standard Setting)
	SPECIAL PURPOSES(0.3 bar Cracking Pressure)
C	140 - 350 bar (210 bar Standard Setting)
D	70 - 175 bar (140 bar Standard Setting)

Z	OPTIONS
L	Leakproof hex. socket screw.
LP	Leakproof hex. socket screw. With stainless steel external metal components
C	Stainless Steel Tamper Resistant Cover.

Counterbalance Valve

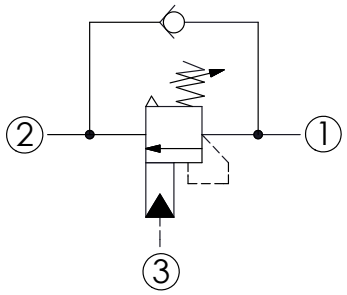
(Vented, Atmospherically Referenced, 420 Bar Maximum Setting)

Ordering Code: **CA-11A-X-Y-Z**



UNIT:mm

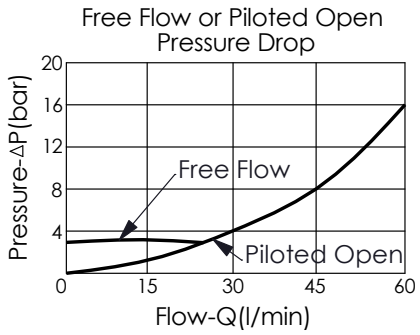
Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

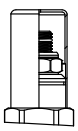
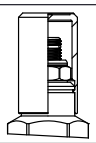
Max. Setting:	420	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.20 (**Z**=L)	kg

- Pressure Setting: Setting should be 1.3 times maximum load induced pressure. (We suggest when the Max. setting pressure is 420 bar, the load pressure has to be lower than 320 bar.)
- Approximately 1 drop (0.07 cc) of fluid will pass from the pilot area to the vented spring chamber every 4000 cycles.



X	PILOT RATIO
3B	2 : 1 (with sealed pilot)
3E	5 : 1 (with sealed pilot)
3J	10: 1 (with sealed pilot)

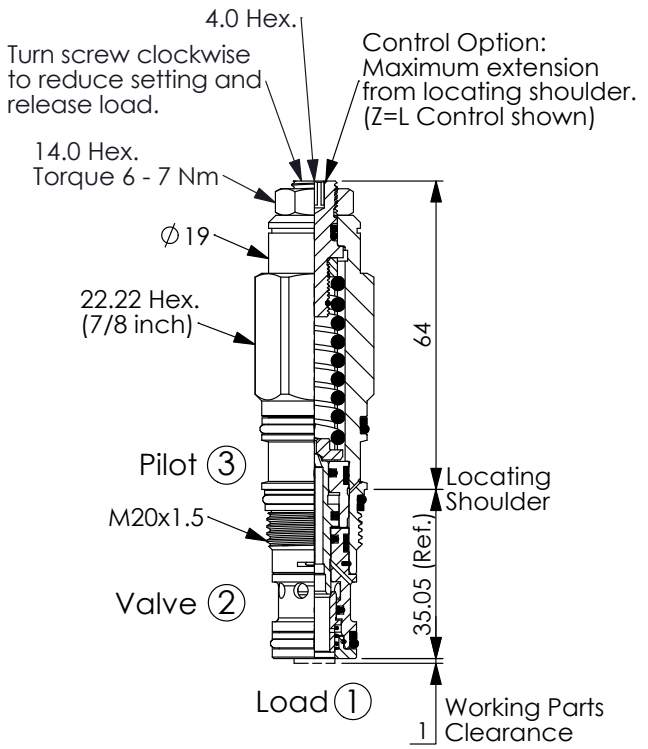
Y	SPRINGS
	ADJUSTMENT RANGES(2.8 bar Cracking Pressure)
F	70 - 175 bar (140 bar Standard Setting)
G	140 - 420 bar (280 bar Standard Setting)

Z	OPTIONS	
L	Leakproof hex. socket screw.	
C	Stainless Steel Tamper Resistant Cover.	
CB	Plastic Tamper Resistant Cover (Order Code:5JAA093)	

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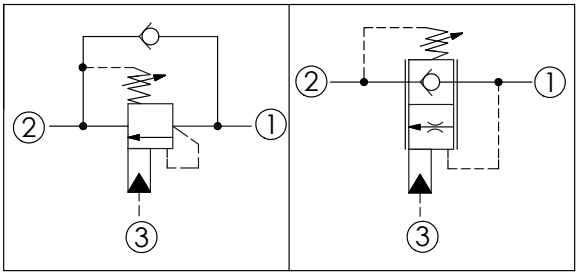
Load Reactive, Load Control Valve
(Non-Vented)

Ordering Code:	MB-11A-X-Y-Z



UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

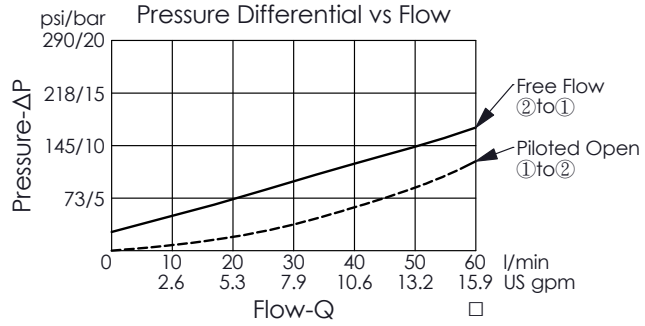
Max. Setting:	350	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.20	kg

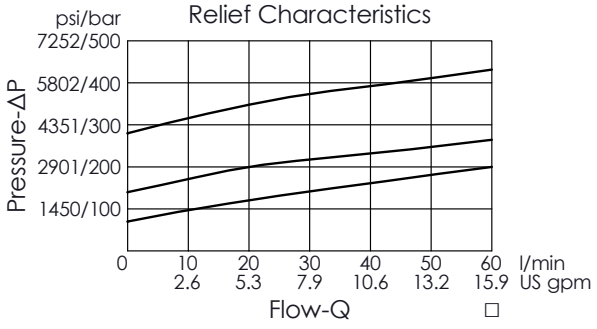
Pressure Setting:
Setting should be 1.3 times maximum load induced pressure. (We suggest when the Max. setting pressure is 350 bar, the load pressure has to be lower than 270 bar.)

This valve is functionally a 3 ports counterbalance valve (CB). It seats as a poppet valve and modulates as a spool valve.

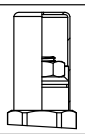
X	PILOT RATIO (with sealed pilot)	
3C	3 : 1	
3D	4.5 : 1	

· Maximum Leakage (0.3 cc/min.)



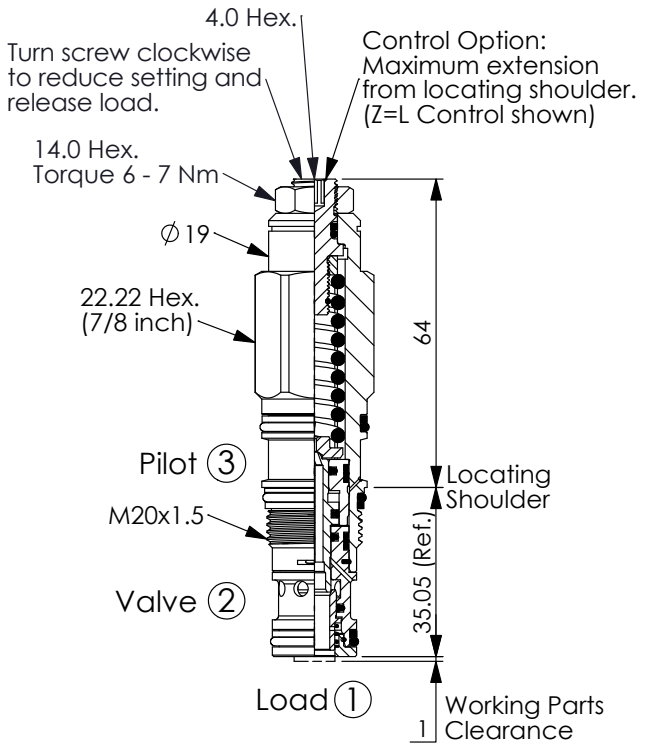


Y	SPRINGS	
	ADJUSTMENT RANGES (1.7 bar Cracking Pressure)	
H	70 - 280 bar (210 bar Standard Setting)	
J	140 - 350 bar (210 bar Standard Setting)	
I	25 - 105 bar (70 bar Standard Setting)	

Z	OPTIONS	
L	Leakproof hex. socket screw. 	
LP	Leakproof hex. socket screw. With stainless steel external metal components 	
C	Stainless Steel Tamper Resistant Cover. 	

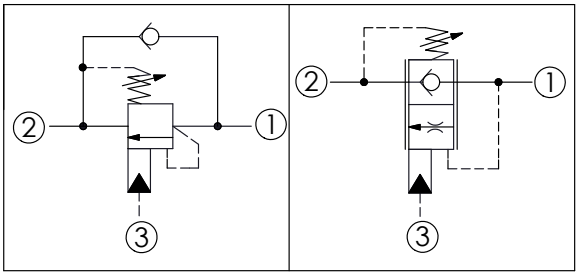
Load Reactive, Load Control Valve
(Non-Vented)

Ordering Code:	MB-11A-X-Y-Z



UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

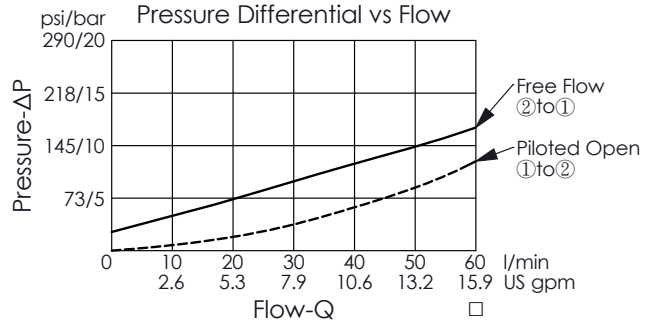
Max. Setting:	350	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.20	kg

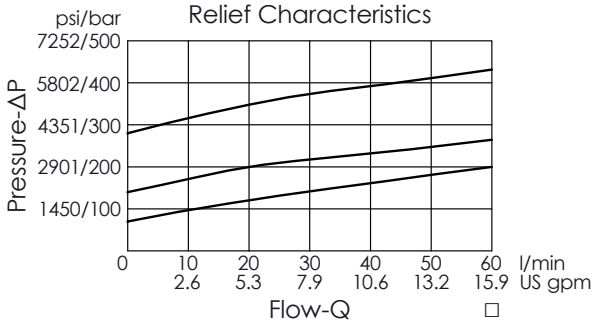
Pressure Setting:
Setting should be 1.3 times maximum load induced pressure. (We suggest when the Max. setting pressure is 350 bar, the load pressure has to be lower than 270 bar.)

This valve is functionally a 3 ports counterbalance valve (CB). It seats as a poppet valve and modulates as a spool valve.

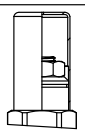
X	PILOT RATIO (with sealed pilot)	
3C	3 : 1	
3D	4.5 : 1	

· Maximum Leakage (0.3 cc/min.)





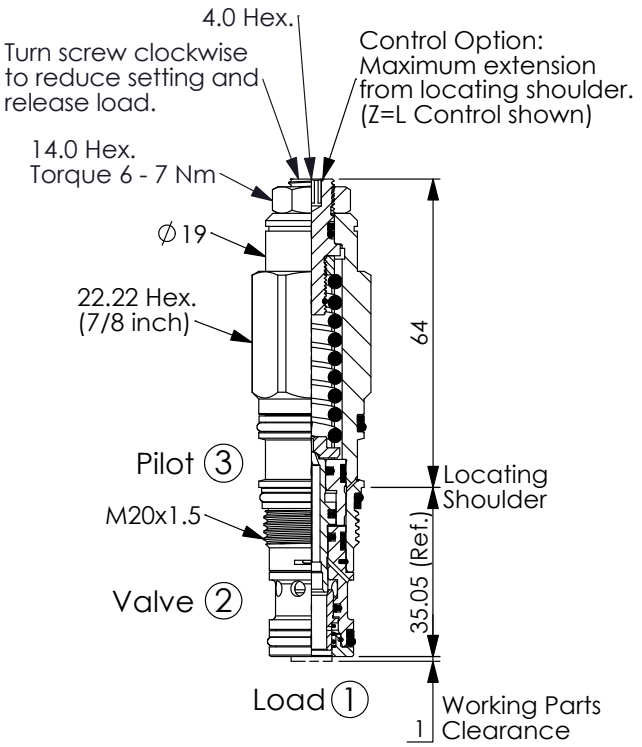
Y	SPRINGS	
	ADJUSTMENT RANGES (1.7 bar Cracking Pressure)	
H	70 - 280 bar (210 bar Standard Setting)	
J	140 - 350 bar (210 bar Standard Setting)	
I	25 - 105 bar (70 bar Standard Setting)	

Z	OPTIONS	
L	Leakproof hex. socket screw. 	
LP	Leakproof hex. socket screw. With stainless steel external metal components 	
C	Stainless Steel Tamper Resistant Cover. 	

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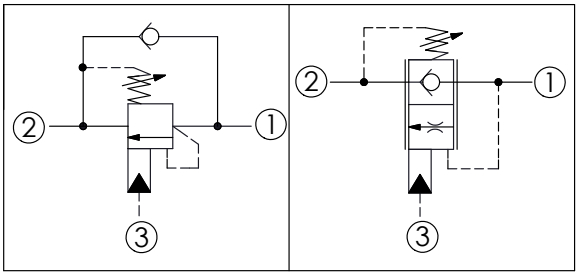
Load Reactive, Load Control Valve
(Non-Vented)

Ordering Code: **MB-11A-X-Y-Z**



UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



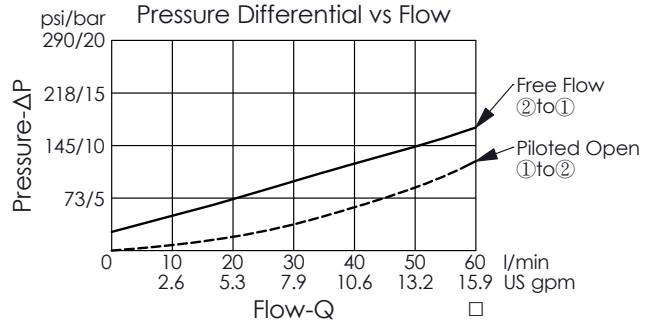
TECHNICAL DATA		
Max. Setting:	350	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.20	kg

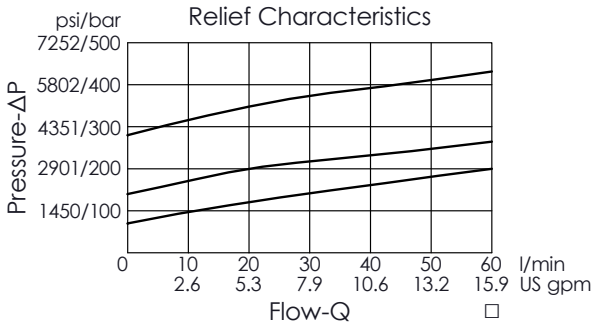
Pressure Setting:
Setting should be 1.3 times maximum load induced pressure. (We suggest when the Max. setting pressure is 350 bar, the load pressure has to be lower than 270 bar.)

This valve is functionally a 3 ports counterbalance valve (CB). It seats as a poppet valve and modulates as a spool valve.

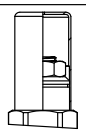
X	PILOT RATIO (with sealed pilot)	
3C	3 : 1	
3D	4.5 : 1	

· Maximum Leakage (0.3 cc/min.)

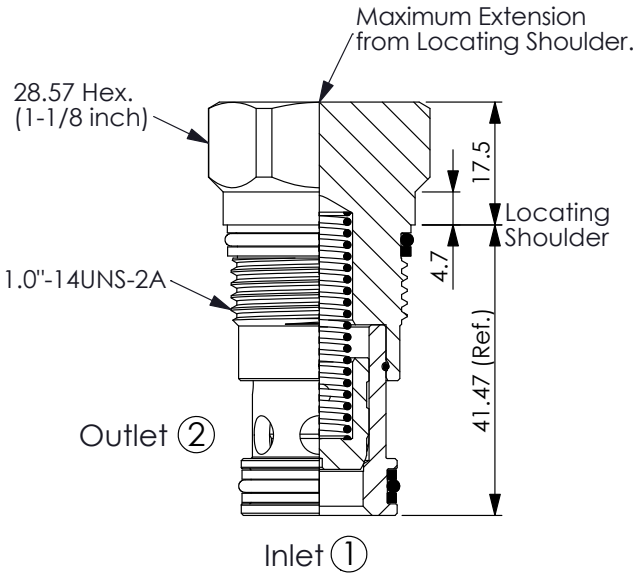




Y	SPRINGS	
	ADJUSTMENT RANGES (1.7 bar Cracking Pressure)	
H	70 - 280 bar (210 bar Standard Setting)	
J	140 - 350 bar (210 bar Standard Setting)	
I	25 - 105 bar (70 bar Standard Setting)	

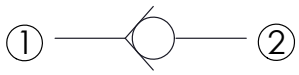
Z	OPTIONS	
L	Leakproof hex. socket screw. 	
LP	Leakproof hex. socket screw. With stainless steel external metal components 	
C	Stainless Steel Tamper Resistant Cover. 	

Ordering Code:	CV-5A-X-Y-Z

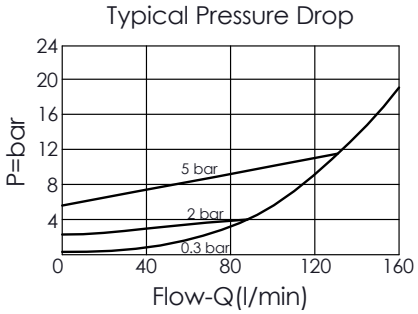


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA		
Max. Operating pressure:	350	bar
Rated flow:	160	l/min
Cavity-Tooling:	5A-2	
Installation torque:	60 - 70	Nm
Weight:	0.19 (**Z**=N,NP)	kg



Y	SPRINGS	
	Cracking pressure	
007	0.07 bar	
015	0.15 bar	
03	0.3 bar	
10	1.0 bar	
20	2.0 bar	
35	3.5 bar	
50	5.0 bar	
70	7.0 bar	

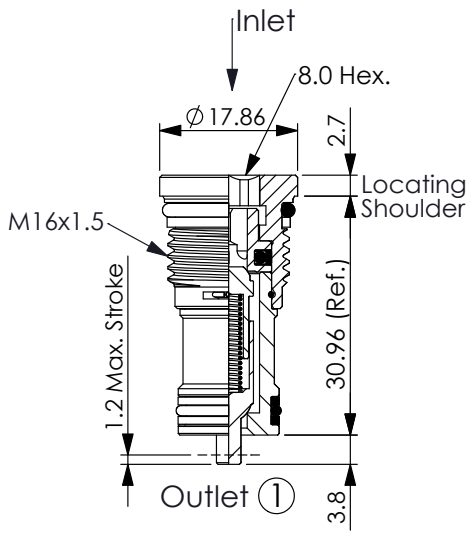
X	OPERATION	
20	① to ② (Free Flow)	

Z	OPTION	
N	Non-adjustable 	
NP	Non-adjustable With stainless steel external metal components (Buna-N Seal) 	

Check Valve

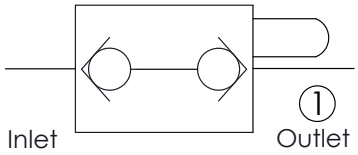
(Mechanically-Operated, Back-to-Back Check Valve) (Phaser Check – Single-End Actuation)

Ordering Code: **CD-162AP-X-Y-Z**



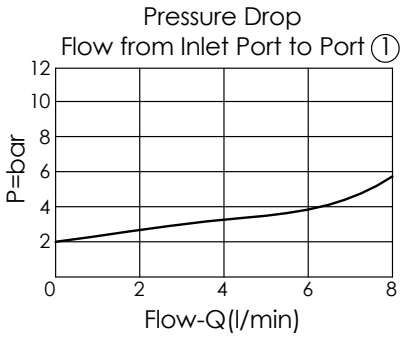
UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA		
Max. operating pressure:	350	bar
Rated flow:	4.7	l/min
Cavity-Tooling:	162AP-2	
Installation torque:	27 - 33	Nm
Weight:	0.03	kg

- Internal Leakage Approximately (0.07 cc/min./350 bar) (1 drop/min)
- Maximum stroke of the poppet must be limited to 1.2 mm by a mechanical stop other than the valve itself.
- Any technical questions, please feel free to consult with our sales dept.



X	CONTROL	
2S	Phaser Check - Single End Actuation	

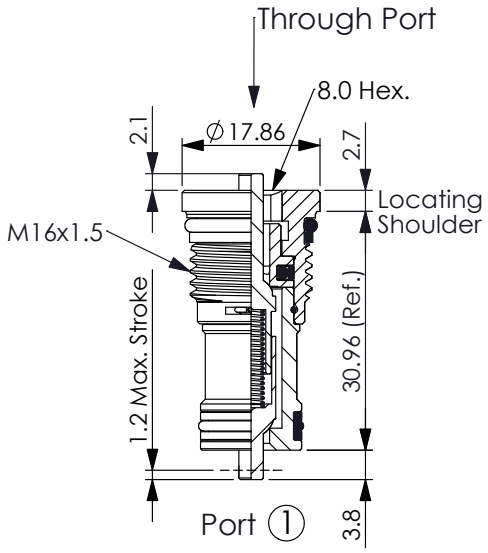
Y	SPRINGS	
	Cracking pressure	
20	2.0 bar	

Z	OPTION	
M	Standard	

Check Valve

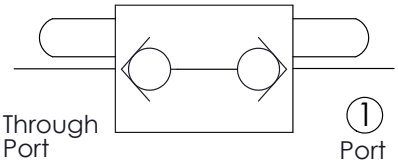
(Mechanically-Operated, Back-to-Back Check Valve) (Phaser Check – Double-End Actuation)

Ordering Code: **CD-162AP-X-Y-Z**



UNIT:mm

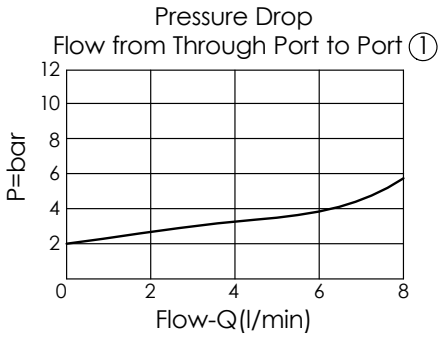
Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

Max. operating pressure:	350	bar
Rated flow:	4.7	l/min
Cavity-Tooling:	162AP-2	
Installation torque:	27 - 33	Nm
Weight:	0.03	kg

- Internal Leakage Approximately (0.07 cc/min./350 bar) (1 drop/min)
- Maximum stroke of the poppet must be limited to 1.2 mm by a mechanical stop other than the valve itself.
- Any technical questions, please feel free to consult with our sales dept.

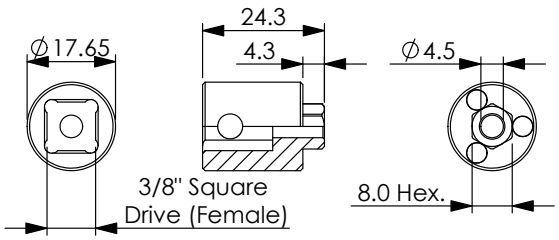


X	CONTROL	
2D	Phaser Check-Double End Actuation	

Z	OPTION	
M	Standard	

Y	SPRINGS	
	Cracking pressure	
20	2.0 bar	

FITTING TOOL DIMENSION



UNIT:mm

Illustrations / detail are for reference only. Data subject to change.

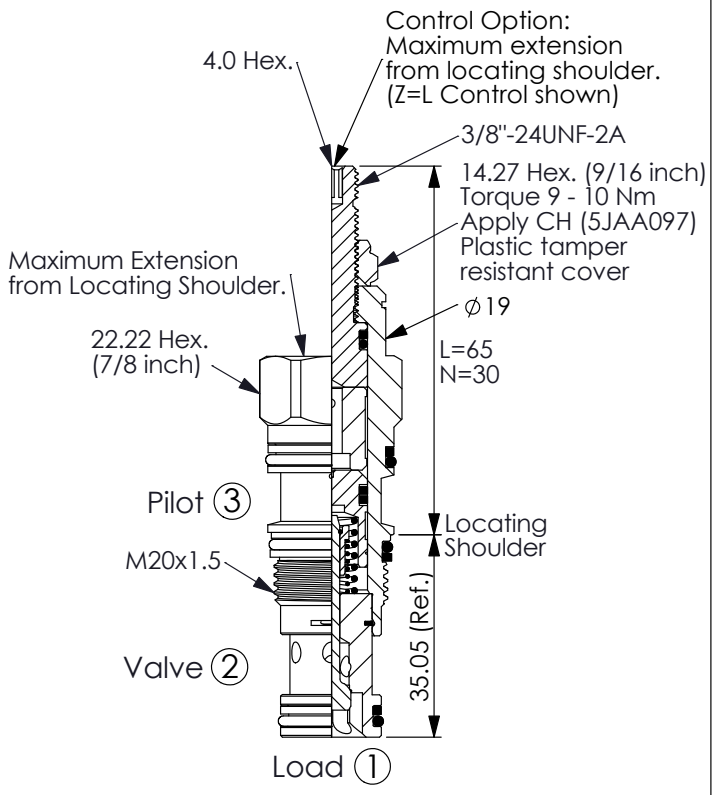
Tool's order code: **7ZW1724001**

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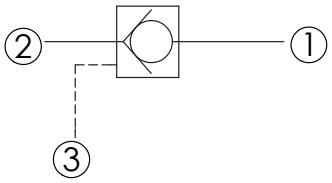
Check Valve
(Pilot-To-Open)

Ordering Code: **CO-11A-X-Y-Z**

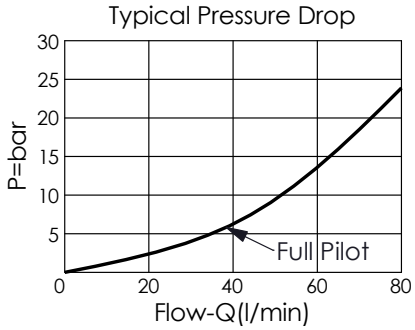


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.

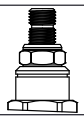
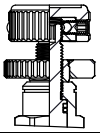


TECHNICAL DATA		
Max. Operating pressure:	350	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.127 (**Z**=N)	kg



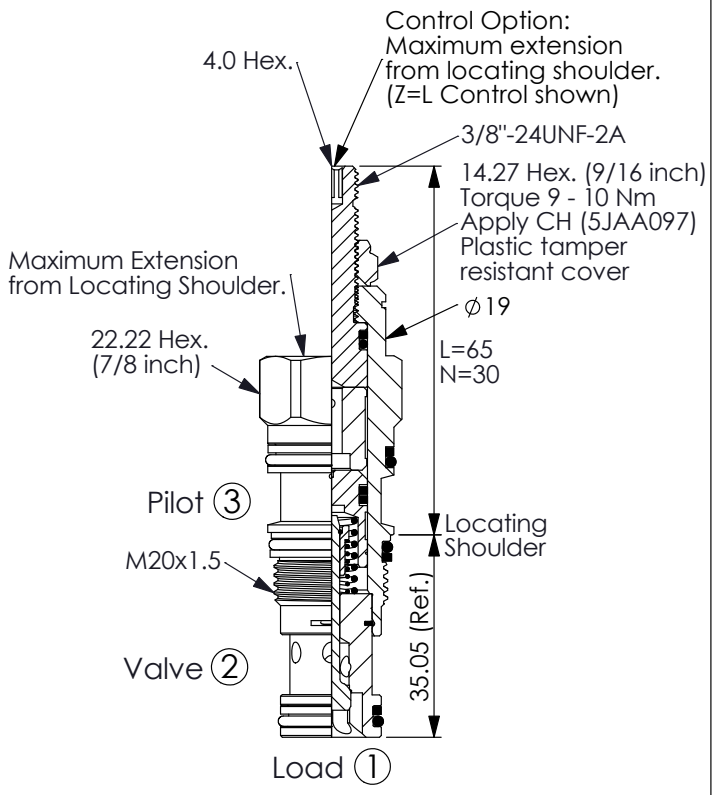
Y	SPRINGS	
	Cracking pressure	
007	0.07 bar	
03	0.3 bar	
10	1.0 bar	
20	2.0 bar	
35	3.5 bar	
50	5.0 bar	
70	7.0 bar	

X	OPERATION	
30	② to ① (Free Flow) Pilot Ratio 3:1	
3C	② to ① (Free Flow) Sealed Pilot Piston Pilot Ratio 3:1	
3D	② to ① (Free Flow) Sealed Pilot Piston Pilot Ratio 4.2:1	
3E	② to ① (Free Flow) Sealed Pilot Piston Pilot Ratio 5:1	

Z	OPTION	
N	Non-adjustable 	
NP	Non-adjustable With stainless steel external metal components (Buna-N Seal) 	
L	Leakproof hex. socket screw. 	
K	Handknob with Lock Knob. (Order Code: 6ZAK001) 	

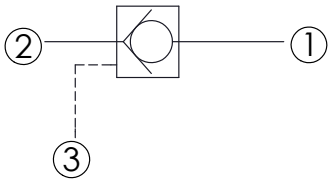
Check Valve
(Pilot-To-Open)

Ordering Code: **CO-11A-X-Y-Z**

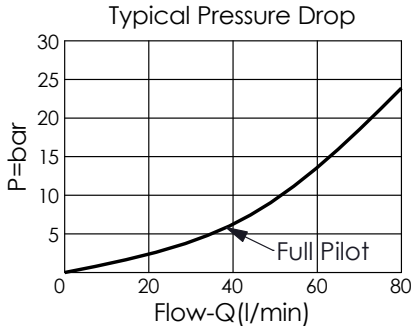


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.

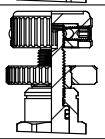


TECHNICAL DATA		
Max. Operating pressure:	350	bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.127 (**Z**=N)	kg



Y	SPRINGS	
	Cracking pressure	
007	0.07 bar	
03	0.3 bar	
10	1.0 bar	
20	2.0 bar	
35	3.5 bar	
50	5.0 bar	
70	7.0 bar	

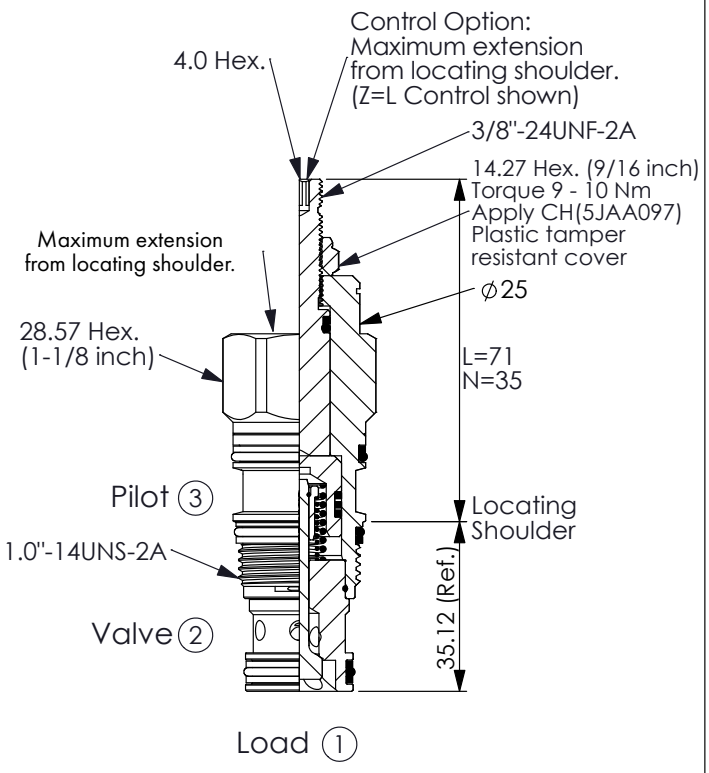
X	OPERATION	
30	② to ① (Free Flow) Pilot Ratio 3:1	
3C	② to ① (Free Flow) Sealed Pilot Piston Pilot Ratio 3:1	
3D	② to ① (Free Flow) Sealed Pilot Piston Pilot Ratio 4.2:1	
3E	② to ① (Free Flow) Sealed Pilot Piston Pilot Ratio 5:1	

Z	OPTION	
N	Non-adjustable 	
NP	Non-adjustable With stainless steel external metal components (Buna-N Seal) 	
L	Leakproof hex. socket screw. 	
K	Handknob with Lock Knob. (Order Code: 6ZAK001) 	

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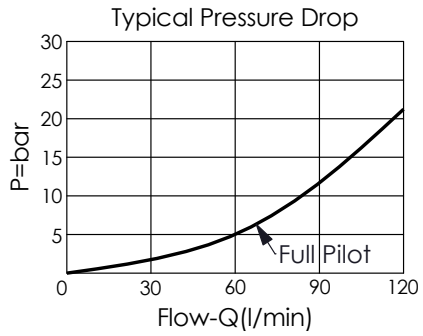
Check Valve
(Pilot-To-Open)

Ordering Code:	**CO-2A-X-Y-Z**

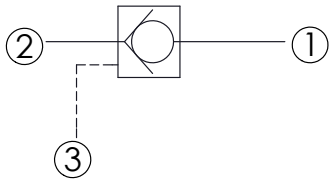


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.

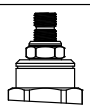
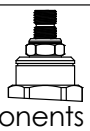
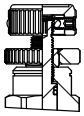


Y	SPRINGS Cracking pressure	
00	0 bar (without spring)	
015	0.15 bar	
03	0.3 bar	
10	1.0 bar	
20	2.0 bar	
35	3.5 bar	
50	5.0 bar	
70	7.0 bar	



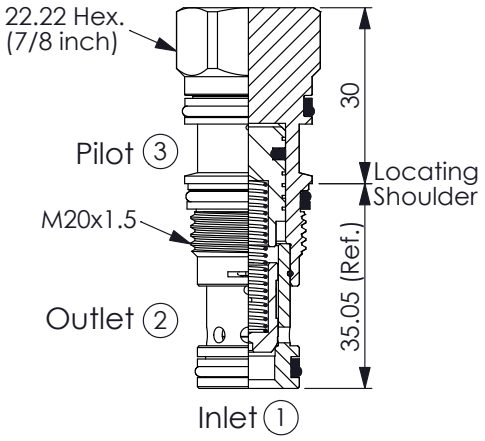
TECHNICAL DATA		
Max. Operating pressure:	350	bar
Rated flow:	120	l/min
Cavity-Tooling:	2A-3	
Installation torque:	60 - 70	Nm
Weight:	0.235 (**Z**=N)	kg

X	OPERATION	
30	② to ① (Free Flow) Pilot Ratio 3:1	
3C	② to ① (Free Flow) Sealed Pilot Piston Pilot Ratio 3:1	

Z	OPTION	
N	Non-adjustable 	
NP	Non-adjustable With stainless steel external metal components (Buna-N Seal) 	
L	Leakproof hex. socket screw. 	
LP	Leakproof hex. socket screw. With Stainless Steel external metal components 	
K	Handknob with Lock Knob. (Order Code: 6ZAK001) 	

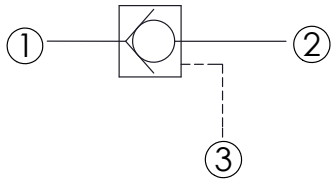
Check Valve
(Pilot-To-Open)

Ordering Code:	CC-11A-X-Y-Z

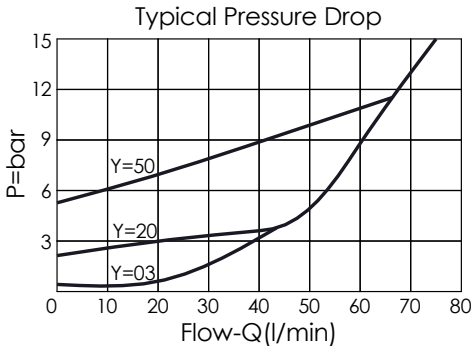


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA		
Max. pressure:	350	bar
Rated flow:	80	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.13	kg



Y	SPRINGS	
	Cracking pressure	
007	0.07 bar	
015	0.15 bar	
03	0.3 bar	
10	1.0 bar	
20	2.0 bar	
35	3.5 bar	
50	5.0 bar	
70	7.0 bar	
105	10.5 bar	

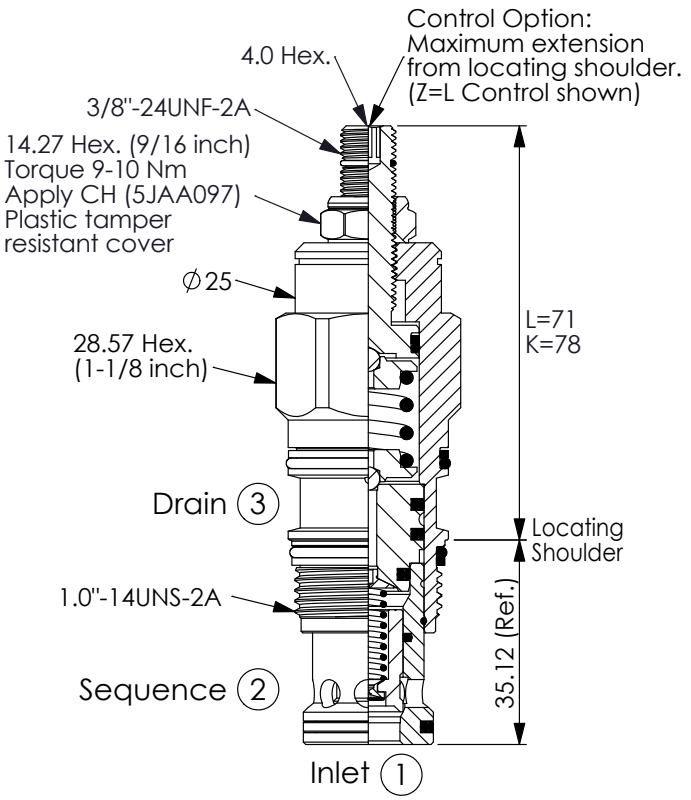
X	OPERATION	
30	① to ② (Free Flow) (with sealed pilot) Pilot Ratio 1.8:1	

Z	OPTION	
N	Non-adjustable	
NP	Non-adjustable With stainless steel external metal components (Buna-N Seal)	

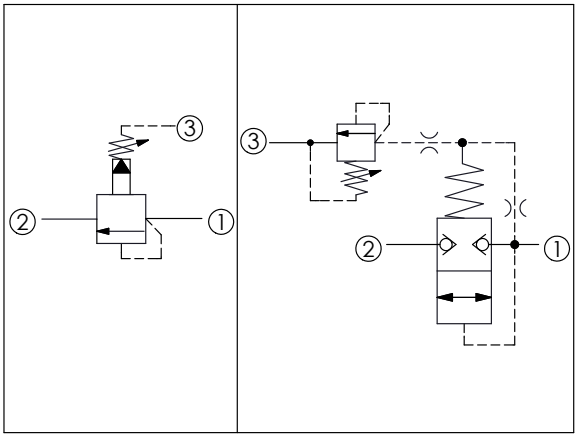
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Sequence Valve
(Pilot Operated, Balanced Poppet)

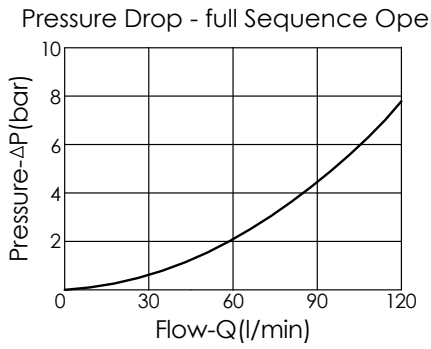
Ordering Code:	SP-2A-X-Y-Z	



UNIT:mm



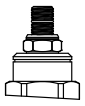
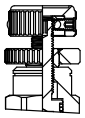
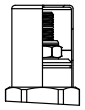
TECHNICAL DATA		
Max. Operating pressure: 350 bar		
Rated flow:	120	l/min
Cavity-Tooling:	2A-3	
Installation torque:	60-70	Nm
Weight:	0.29 (**Z**=L)	kg



X	OPERATION	
3G	Balanced Poppet	

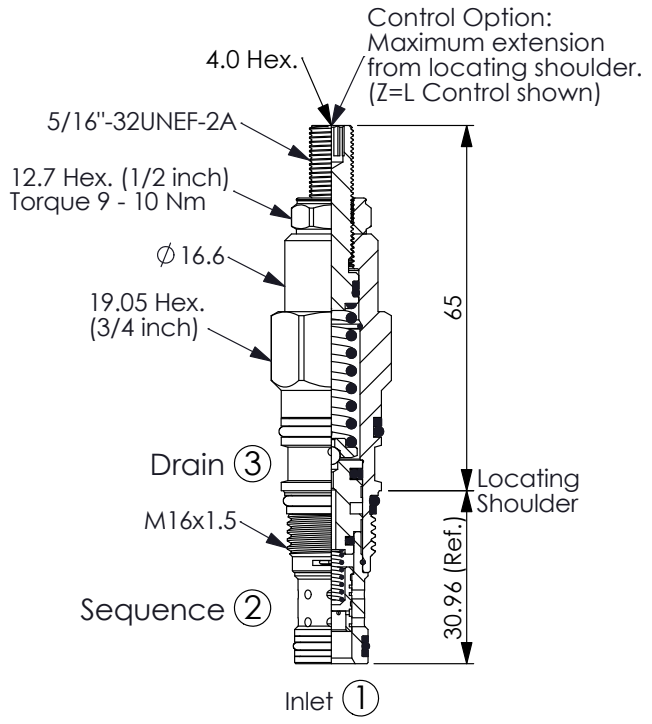
- Dirt tolerant
- Maximum Leakage Approximately (0.7 cc/min./70 bar)
- If the pressure drop of relief valve is high, it easily occurs cavitation which cause noise and manifold erosion. In order to improve this situation, please select balanced poppet structure.

Y	SPRINGS	
	ADJUSTMENT RANGES	
A	7-210 bar (70 bar Standard Setting)	
B	3.5-105 bar (70 bar Standard Setting)	
C	10.5-420 bar (70 bar Standard Setting)	
N	4-55 bar (14 bar Standard Setting)	
Q	4-28 bar (14 bar Standard Setting)	
W	10.5-315 bar (70 bar Standard Setting)	

Z	OPTIONS	
L	Leakproof hex. socket screw. 	
K	Handknob with Lock Knob. (Order Code: 6ZAK001) 	
C	Stainless Steel Tamper Resistant Cover. 	

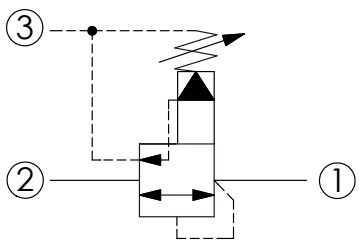
Sequence Valve
(Pilot Operated, Kick-Down)

Ordering Code:	**SQ-163A-X-Y-Z**



UNIT:mm

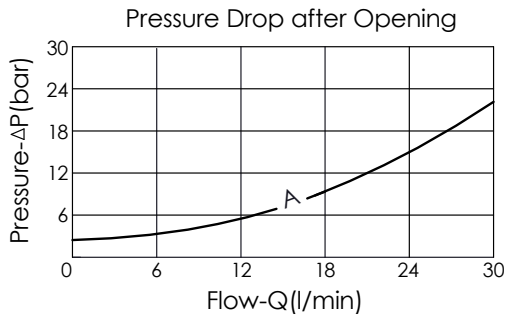
Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

Max. Operating pressure: 350		bar
Rated flow:	30	l/min
Cavity-Tooling:	163A-3	
Installation torque:	27 - 33	Nm
Weight:	0.11 (**Z**=L)	kg

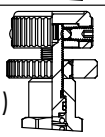
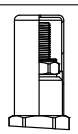
This valve is a special type pressure control valve.
When the inlet port is lower than pressure setting, the valve will remain close.
The valve goes full open if the setting pressure is reached.
Even if the pressure of sequence port makes the pressure drop be lower than setting pressure and the valve remains open status,
the flow has to be stopped so as to make the valve reseat and close.



X	OPERATION	
30	Standard Type	

- Response Time-Typical (25 ms)
- Maximum Leakage Approximately (30 cc/min./70 bar)

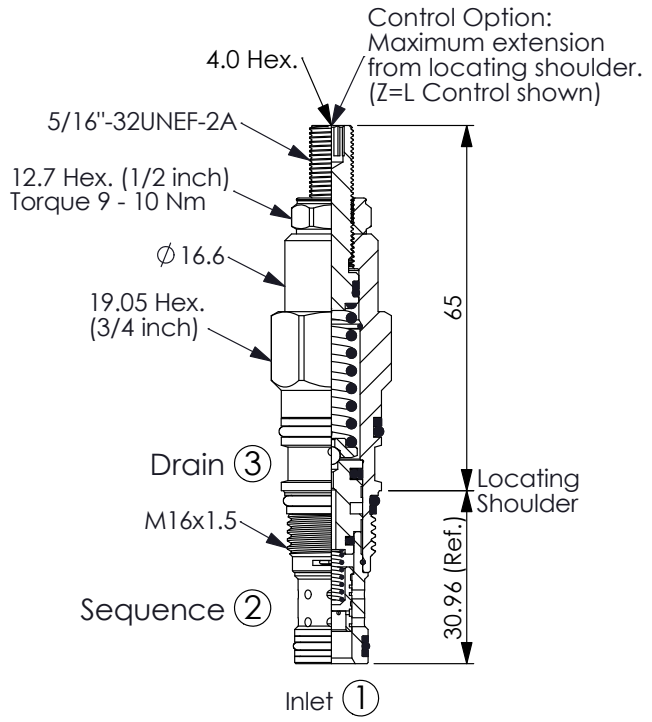
Y	SPRINGS	
	ADJUSTMENT RANGES	
A	5 - 210 bar (70 bar Standard Setting)	
B	5 - 105 bar (70 bar Standard Setting)	
C	5 - 420 bar (70 bar Standard Setting)	
N	5 - 55 bar (28 bar Standard Setting)	
Q	5 - 28 bar (14 bar Standard Setting)	
W	5 - 315 bar (70 bar Standard Setting)	

Z	OPTIONS	
L	Leakproof hex. socket screw. 	
K	Handknob with Lock Knob. (Order Code: 7ZAK001) 	
C	Stainless Steel Tamper Resistant Cover. 	

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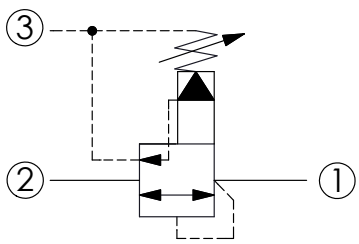
Sequence Valve
(Pilot Operated, Kick-Down)

Ordering Code:	**SQ-163A-X-Y-Z**



UNIT:mm

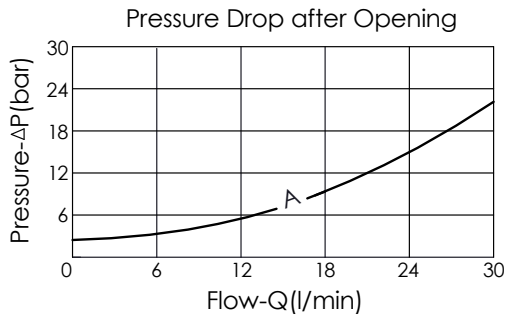
Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

Max. Operating pressure: 350		bar
Rated flow:	30	l/min
Cavity-Tooling:	163A-3	
Installation torque:	27 - 33	Nm
Weight:	0.11 (**Z**=L)	kg

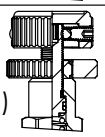
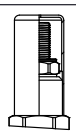
This valve is a special type pressure control valve.
When the inlet port is lower than pressure setting, the valve will remain close.
The valve goes full open if the setting pressure is reached.
Even if the pressure of sequence port makes the pressure drop be lower than setting pressure and the valve remains open status,
the flow has to be stopped so as to make the valve reseat and close.



X	OPERATION	
30	Standard Type	

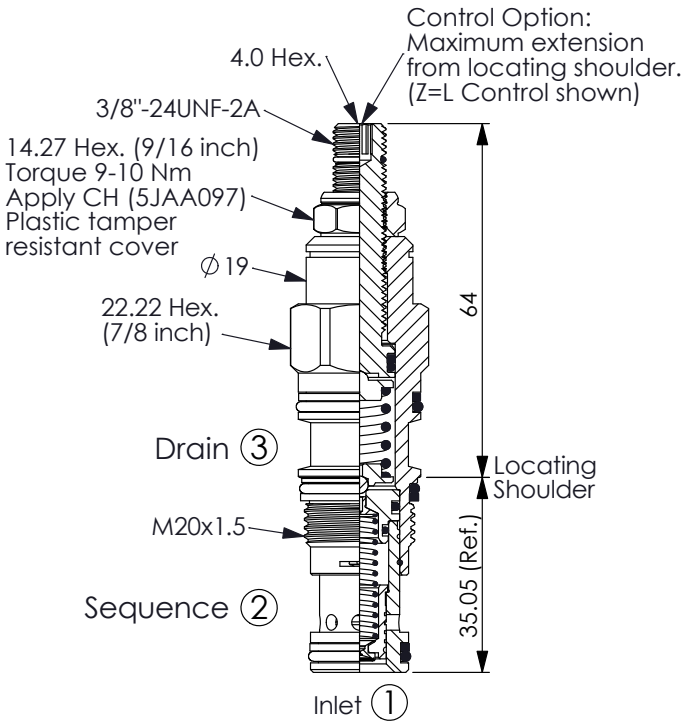
- Response Time-Typical (25 ms)
- Maximum Leakage Approximately (30 cc/min./70 bar)

Y	SPRINGS	
	ADJUSTMENT RANGES	
A	5 - 210 bar (70 bar Standard Setting)	
B	5 - 105 bar (70 bar Standard Setting)	
C	5 - 420 bar (70 bar Standard Setting)	
N	5 - 55 bar (28 bar Standard Setting)	
Q	5 - 28 bar (14 bar Standard Setting)	
W	5 - 315 bar (70 bar Standard Setting)	

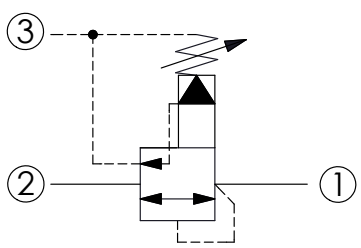
Z	OPTIONS		
L	Leakproof hex. socket screw.		
K	Handknob with Lock Knob. (Order Code: 7ZAK001)		
C	Stainless Steel Tamper Resistant Cover.		

Sequence Valve
(Pilot Operated, Kick-Down)

Ordering Code:	**SQ-11A-X-Y-Z**



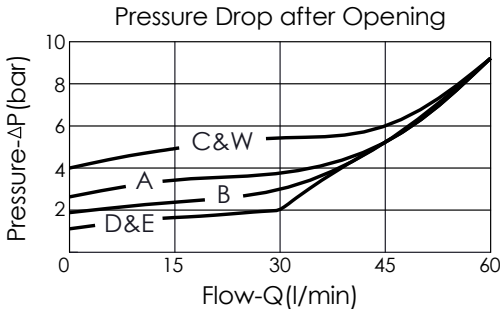
UNIT:mm



TECHNICAL DATA

Max. Operating pressure: 350		bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40-50	Nm
Weight:	0.16 (**Z**=L)	kg

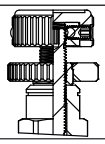
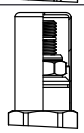
This valve is a special type pressure control valve.
When the inlet port is lower than pressure setting, the valve will remain close.
The valve goes full open if the setting pressure is reached.
Even if the pressure of sequence port makes the pressure drop be lower than setting pressure and the valve remains open status,
the flow has to be stopped so as to make the valve reseat and close.



X	OPERATION	
30	Standard Type	

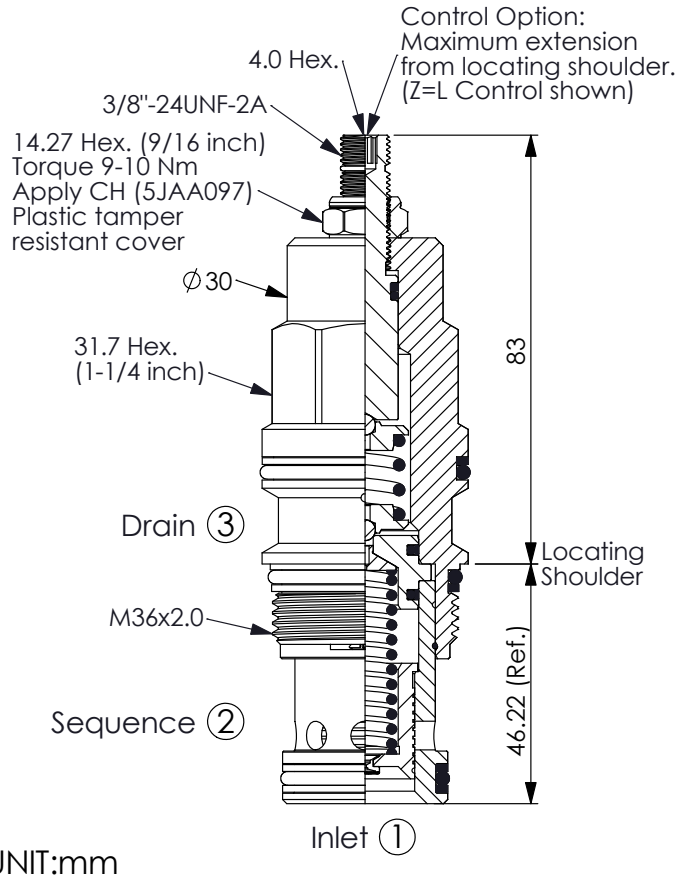
- Response Time-Typical (25 ms)
- Maximum Leakage Approximately (30 cc/min./70 bar)

Y	SPRINGS	
	ADJUSTMENT RANGES	
A	7-210 bar (70 bar Standard Setting)	
B	3.5-105 bar (70 bar Standard Setting)	
C	10.5-420 bar (70 bar Standard Setting)	
D	1.7-55 bar (28 bar Standard Setting)	
E	1.7-28 bar (14 bar Standard Setting)	
W	10.5-315 bar (70 bar Standard Setting)	

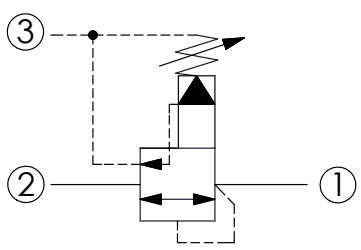
Z	OPTIONS		
L	Leakproof hex. socket screw.		
K	Handknob with Lock Knob. (Order Code: 6ZAK001)		
C	Stainless Steel Tamper Resistant Cover.		

Sequence Valve
(Pilot Operated, Kick-Down)

Ordering Code:	SQ-17A-X-Y-Z



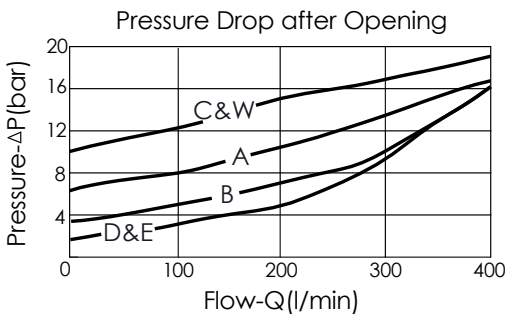
UNIT:mm



TECHNICAL DATA

Max. Operating pressure: 350		bar
Rated flow:	240	l/min
Cavity-Tooling:	17A-3	
Installation torque:	200-215	Nm
Weight:	0.61 (**Z**=L)	kg

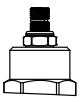
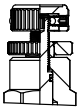
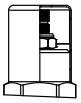
This valve is a special type pressure control valve.
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the flow has to be stopped so as to make the valve reseat and close.



X	OPERATION	
30	Standard Type	

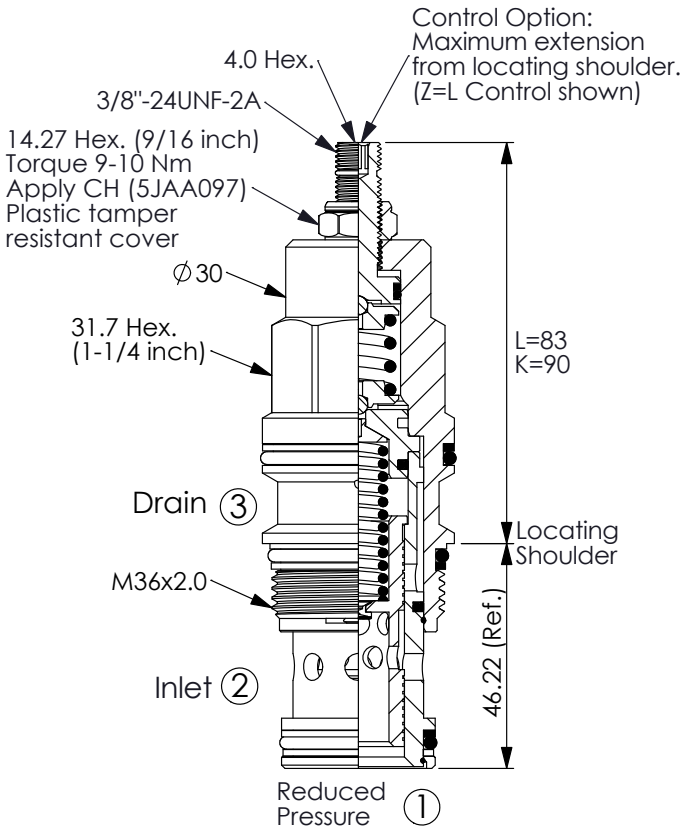
- Response Time-Typical (25 ms)
- Maximum Leakage Approximately (65 cc/min./70 bar)

Y	SPRINGS	
	ADJUSTMENT RANGES	
A	7-210 bar (70 bar Standard Setting)	
B	3.5-105 bar (70 bar Standard Setting)	
C	10.5-420 bar (70 bar Standard Setting)	
D	1.7-55 bar (28 bar Standard Setting)	
E	1.7-28 bar (14 bar Standard Setting)	
W	10.5-315 bar (70 bar Standard Setting)	

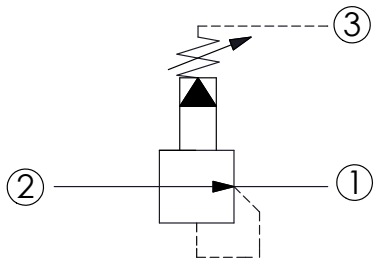
Z	OPTIONS		
L	Leakproof hex. socket screw.		
K	Handknob with Lock Knob. (Order Code: 6ZAK001)		
C	Stainless Steel Tamper Resistant Cover.		

Reducing Valve
(Pilot Operated Reducing)

Ordering Code: **PB-17A-X-Y-Z**



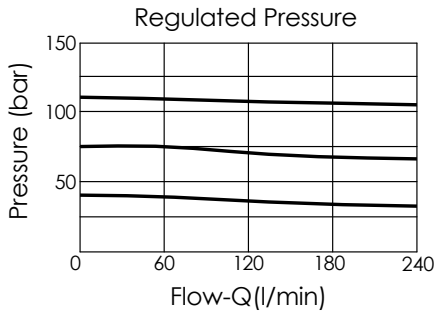
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TECHNICAL DATA

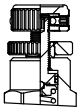
Max.Operating pressure:	350	bar
Rated flow:	160	l/min
Cavity-Tooling:	17A-3	
Installation torque:	200-215	Nm
Weight:	0.57 (**Z**=L)	kg

Control Pilot Flow (0.25-0.33 L/min.)



Y	SPRINGS ADJUSTMENT RANGES	
A	7-210 bar (14 bar Standard Setting) Maximum Differential=210 bar	
B	3.5-105 bar (14 bar Standard Setting) Maximum Differential=210 bar	
C	10.5-420 bar (14 bar Standard Setting)	
D	1.7-55 bar (14 bar Standard Setting) Maximum Differential=140 bar	
E	1.7-28 bar (14 bar Standard Setting) Maximum Differential=140 bar	
H	2-210 bar (14 bar Standard Setting) Maximum Differential=210 bar	
N	4-55 bar (14 bar Standard Setting) Maximum Differential=140 bar	
Q	4-28 bar (14 bar Standard Setting) Maximum Differential=140 bar	
W	10.5-315 bar (14 bar Standard Setting)	

X	OPERATION	
30	Standard Type	
35	Impact Resistant Type (Without Filter)	

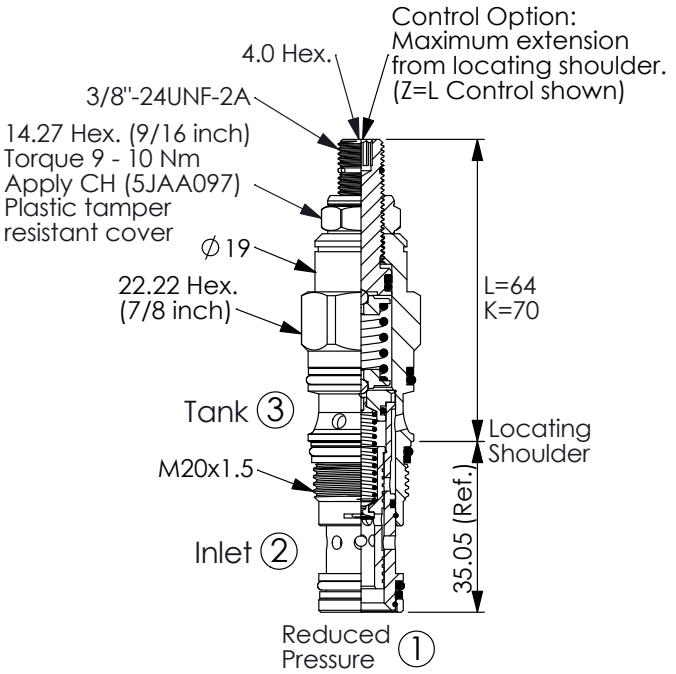
Z	OPTIONS	
L	Leakproof hex. socket screw. 	
LP	Leakproof hex. socket screw. With stainless steel external metal components 	
K	Handknob with Lock Knob. (Order Code: 6ZAK001) 	

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Reducing / Relieving Valve

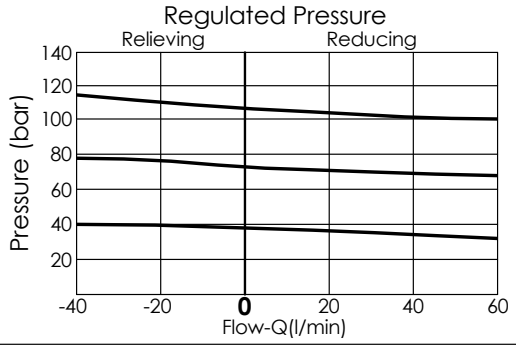
(Pilot Operated Reducing / Relieving)

Ordering Code:	PP-11A-X-Y-Z



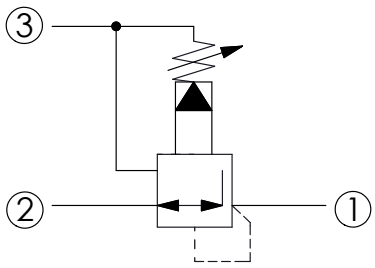
UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



Y	SPRINGS ADJUSTMENT RANGES (X=30)(X=35)	
A	7 - 210 bar (14 bar Standard Setting) Maximum Differential=210 bar	
B	3.5 - 105 bar (14 bar Standard Setting) Maximum Differential=210 bar	
C	10.5 - 420 bar (14 bar Standard Setting)	
D	1.7 - 55 bar (14 bar Standard Setting) Maximum Differential=140 bar	
E	1.7 - 28 bar (14 bar Standard Setting) Maximum Differential=140 bar	
※F	1 - 28 bar (14 bar Standard Setting)	
※G	2.8 - 28 bar (14 bar Standard Setting)	
H	2 - 210 bar (14 bar Standard Setting) Maximum Differential=210 bar	
※J	1.7 - 105 bar (14 bar Standard Setting)	
※K	5 - 105 bar (14 bar Standard Setting)	
N	4 - 55 bar (14 bar Standard Setting) Maximum Differential=140 bar	
Q	4 - 28 bar (14 bar Standard Setting) Maximum Differential=140 bar	
W	10.5 - 315 bar (14 bar Standard Setting)	

※ When X = 33, the lowest pressure will be a bit higher than standard.
※ Maximum differential pressure...Any technical questions, please feel free to consult with our sales dept.

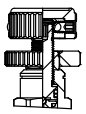
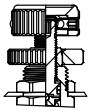
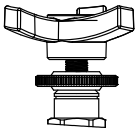


TECHNICAL DATA

Max. operating pressure:	350	bar
Rated flow:	40	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.15 (**Z**=L,LP) 0.16 (**Z**=KF)	kg

· Control Pilot Flow (0.11-0.16 L/min.)

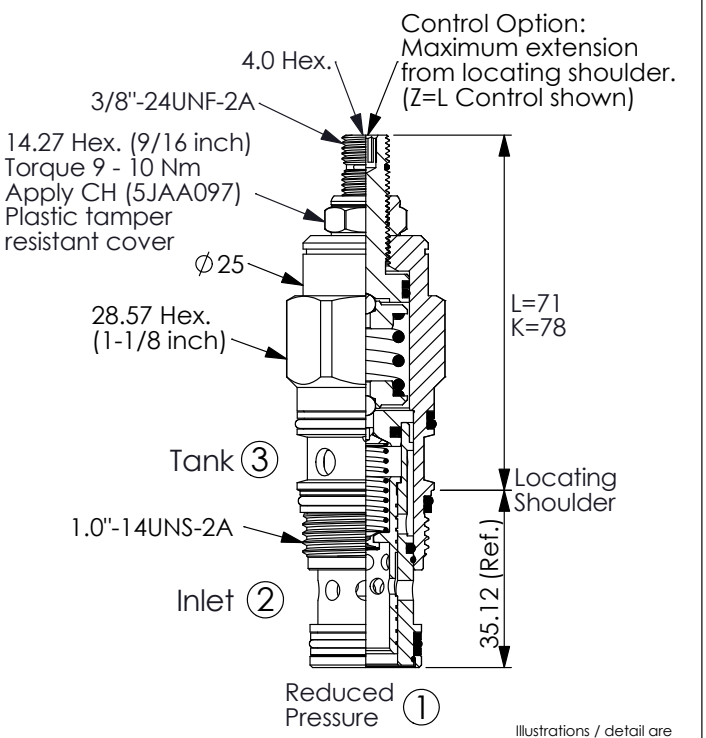
X	OPERATION	
30	Standard type Low leakage	
※33	Very good pressure control Improved dynamic response	
35	Impact resistant type Low leakage without filter	

Z	OPTIONS		
L	Leakproof hex. socket screw.		
LP	Leakproof hex. socket screw. With stainless steel external metal components		
K	Handknob with Lock Knob. (Order Code: 6ZAK001)		
KF	Handknob with Panel Mount.		
T	Three-winged Handknob Kit.		

Reducing / Relieving Valve

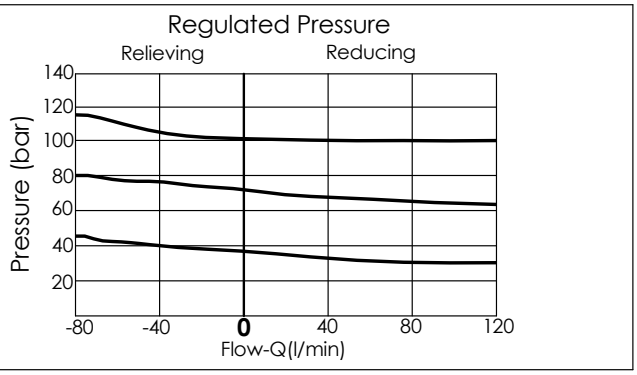
(Pilot Operated Reducing / Relieving)

Ordering Code:	**PP-2A-X-Y-Z**



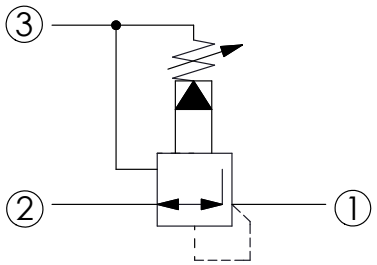
UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



Y	SPRINGS ADJUSTMENT RANGES (X=30)(X=35)	
A	7 - 210 bar (14 bar Standard Setting) Maximum Differential=210 bar	
B	3.5 - 105 bar (14 bar Standard Setting) Maximum Differential=210 bar	
D	1.7 - 55 bar (14 bar Standard Setting) Maximum Differential=140 bar	
E	1.7 - 28 bar (14 bar Standard Setting) Maximum Differential=140 bar	
H	2 - 210 bar (14 bar Standard Setting) Maximum Differential=210 bar	
※ J	1.7 - 105 bar (14 bar Standard Setting)	
※ K	5 - 105 bar (14 bar Standard Setting)	
N	4 - 55 bar (14 bar Standard Setting) Maximum Differential=140 bar	
Q	4 - 28 bar (14 bar Standard Setting) Maximum Differential=140 bar	
※ S	1.7 - 14 bar (7 bar Standard Setting)	
W	10.5 - 315 bar (14 bar Standard Setting)	

∗ When X = 33, the lowest pressure will be a bit higher than standard.
※ Maximum differential pressure...Any technical questions, please feel free to consult with our sales dept.



TECHNICAL DATA		
Max.Operating pressure:	350	bar
Rated flow:	80	l/min
Cavity-Tooling:	2A-3	
Installation torque:	60 - 70	Nm
Weight:	0.264 (**Z**=L)	kg

· Control Pilot Flow (0.16 - 0.25 L/min.)

X	OPERATION	
30	Standard type Low leakage	
∗33	Very good pressure control Improved dynamic response	
35	Impact resistant type Low leakage without filter	

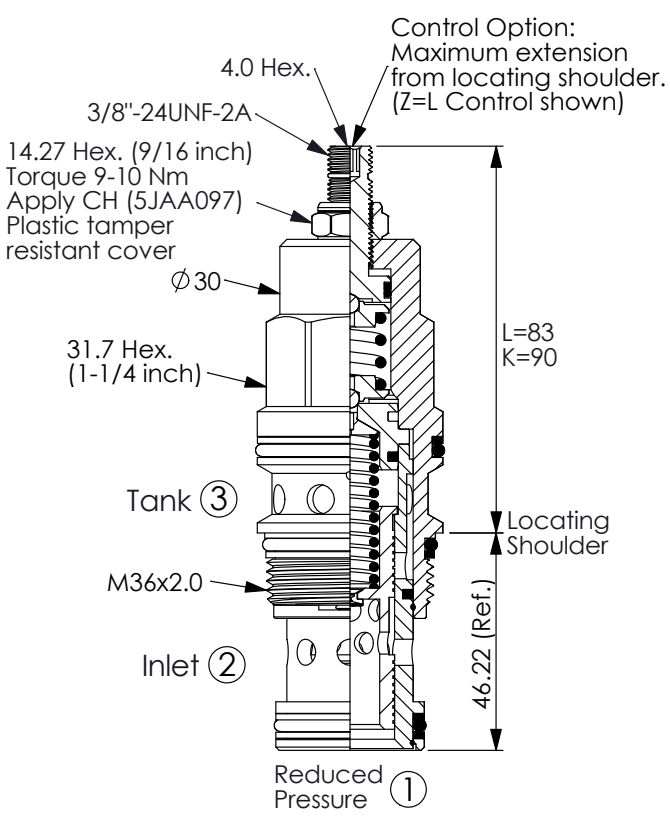
Z	OPTIONS	
L	Leakproof hex. socket screw.	
LP	Leakproof hex. socket screw. With stainless steel external metal components	
K	Handknob with Lock Knob. (Order Code: 6ZAK001)	

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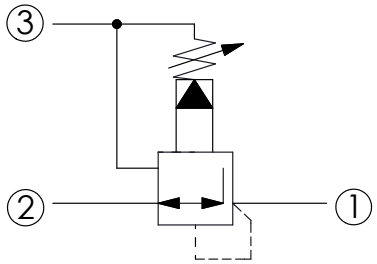
Reducing / Relieving Valve

(Pilot Operated Reducing / Relieving)

Ordering Code:	**PP-17A-X-Y-Z**



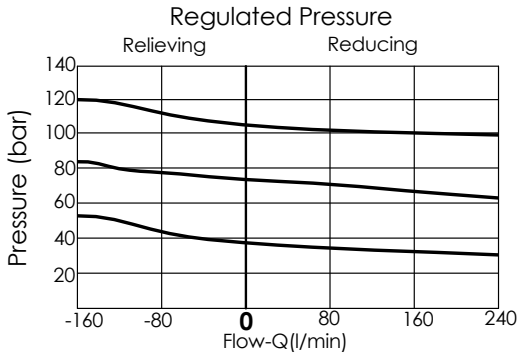
UNIT:mm



TECHNICAL DATA

Max.Operating pressure:	350	bar
Rated flow:	160	l/min
Cavity-Tooling:	17A-3	
Installation torque:	200-215	Nm
Weight:	0.56 (**Z**=L)	kg

· Control Pilot Flow (0.25-0.33 L/min.)

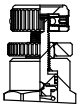


X	OPERATION	
30	Standard type Low leakage	
∗**33**	Very good pressure control Improved dynamic response	
35	Impact resistant type Low leakage without filter	

Y	SPRINGS ADJUSTMENT RANGES (X=30)(X=35)	
A	7-210 bar (14 bar Standard Setting) Maximum Differential=210 bar	
B	3.5-105 bar (14 bar Standard Setting) Maximum Differential=210 bar	
C	10.5-420 bar (14 bar Standard Setting)	
D	1.7-55 bar (14 bar Standard Setting) Maximum Differential=140 bar	
E	1.7-28 bar (14 bar Standard Setting) Maximum Differential=140 bar	
H	2-210 bar (14 bar Standard Setting) Maximum Differential=210 bar	
N	4-55 bar (14 bar Standard Setting) Maximum Differential=140 bar	
Q	4-28 bar (14 bar Standard Setting) Maximum Differential=140 bar	
W	10.5-315 bar (14 bar Standard Setting)	

∗ When X = 33, the lowest pressure will be a bit higher than standard.

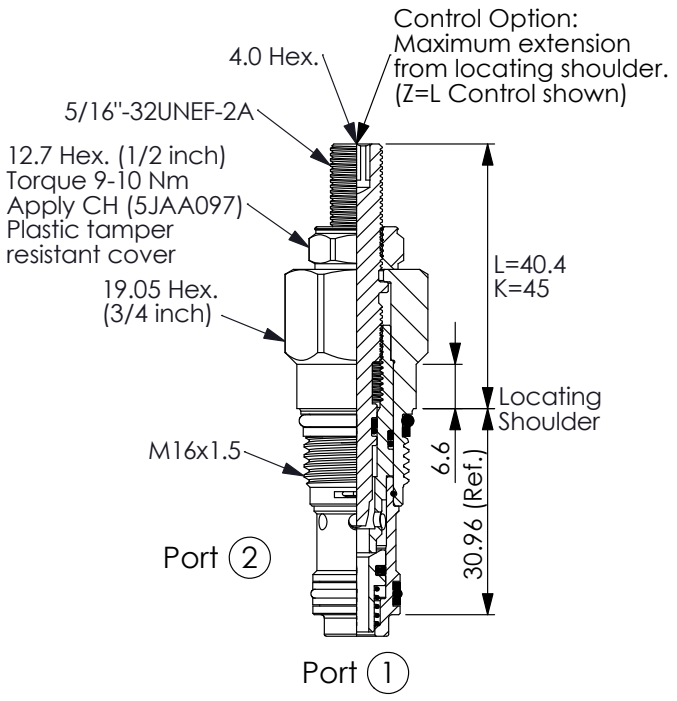
· Any technical questions, please feel free to consult with our sales dept.

Z	OPTIONS	
L	Leakproof hex. socket screw. 	
K	Handknob with Lock Knob. (Order Code: 6ZAK001) 	

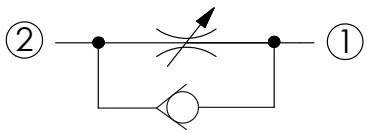
Flow Control Valve

(Fully Adjustable Needle with Reverse Flow Check)

Ordering Code:	**NC-162A-X-Y-Z**



UNIT:mm

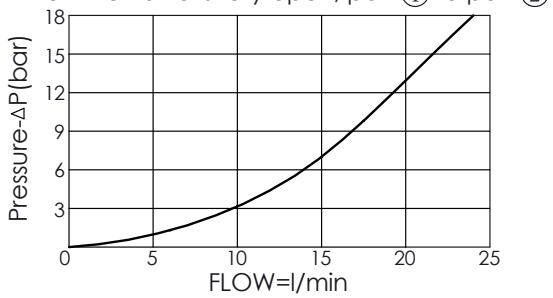


TECHNICAL DATA

Max. operating pressure:	350 (Refer To Performance Chart)	bar
Rated flow:	15 (Refer To Performance Chart)	l/min
Cavity-Tooling:	162A-2	
Installation torque:	27-33	Nm
Weight:	0.07 (**Z**=L)	kg

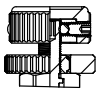
Performance Chart

When the valve is fully open, port ① to port ②



X	OPERATION	
21	② to ① (Free Flow)	

Y	OPTIONS		
	Maximum Nominal Orifice (Refer To Performance Chart)	Cracking Pressure	
BC	∅4.0 mm	2.0 bar	

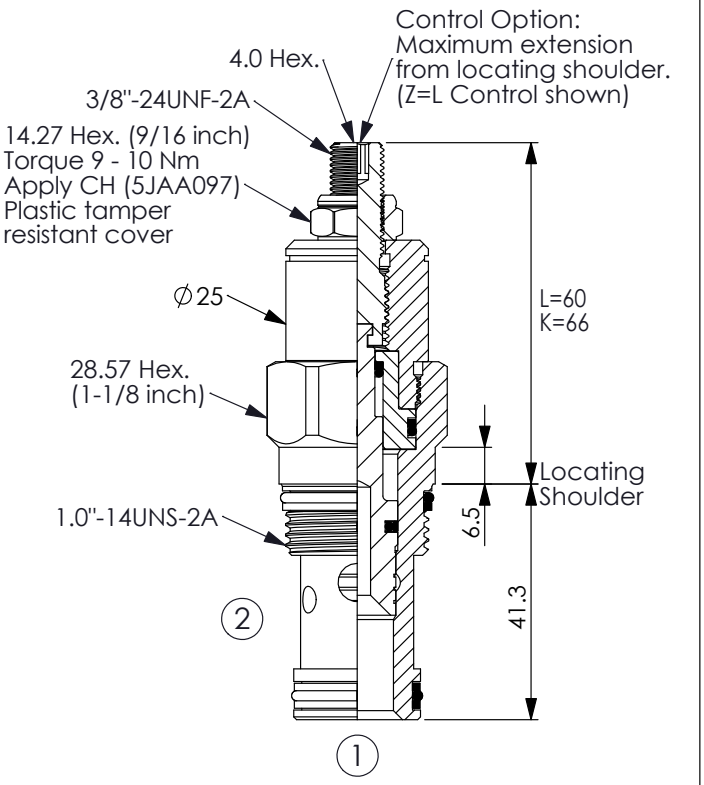
Z	OPTIONS	
L	Leakproof hex. socket screw. 	
LP	Leakproof hex. socket screw. With stainless steel external metal components 	
K	Handknob with Lock Knob. (Order Code: 7ZAK001) 	

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Flow Control Valve

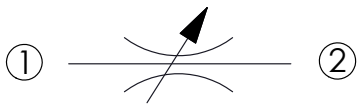
(Fully Adjustable Needle Valve, High Capacity)

Ordering Code:	**NV-5A-X-Y-Z**



UNIT:mm

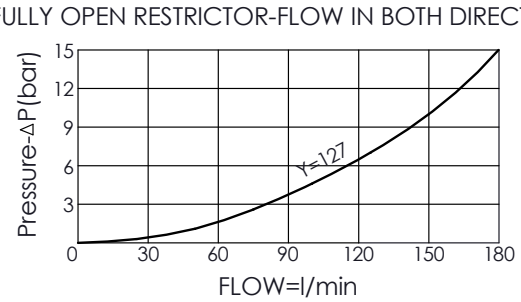
Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

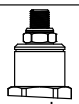
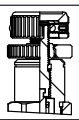
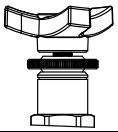
Max. operating pressure:	350	bar
	(Refer To Performance Chart)	
Rated flow:	170	l/min
	(Refer To Performance Chart)	
Cavity-Tooling:	5A-2	
Installation torque:	60 - 70	Nm
Weight:	0.27 (**Z**=L)	kg

Performance Chart



Y	MAXIMUM NOMINAL ORIFICE DIAMETER	
127	Ø 12.7 mm	

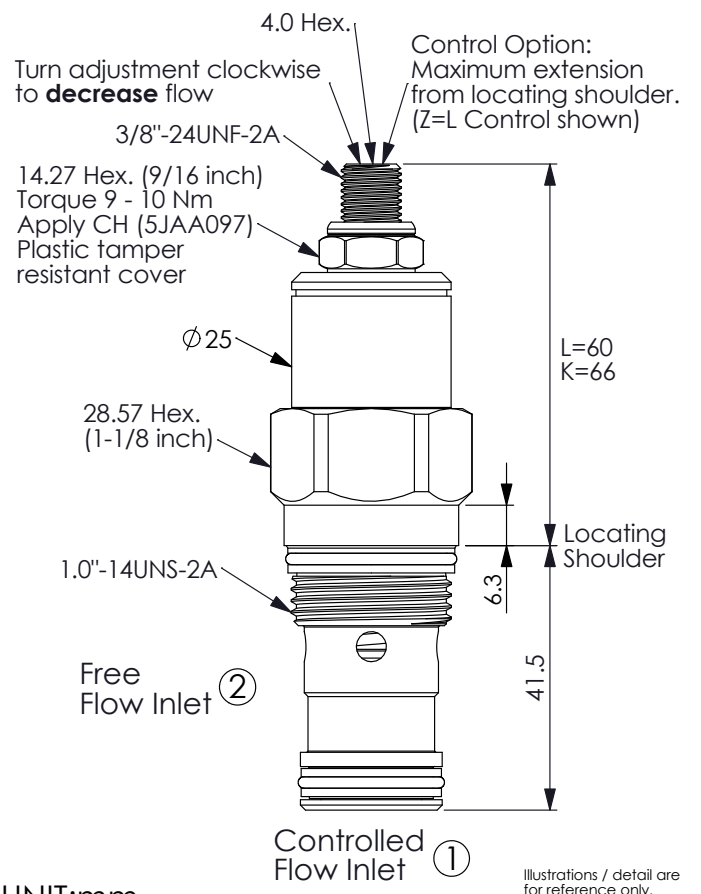
X	OPERATION	
28	Fully Adjustable Needle Valve	

Z	OPTIONS		
L	Leakproof hex. socket screw.		
LP	Leakproof hex. socket screw. With stainless steel external metal components		
K	Handknob with Lock Knob. (Order Code: 6ZAK001)		
T	Three-winged Handknob Kit.		

Flow Control Valve

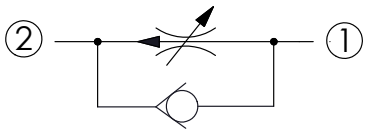
(Fully Adjustable Pressure Compensated Flow Control Valve with Reverse Flow Check and Sharp-Edge Orifice)

Ordering Code:	**FR-5A-X-Y-Z**



UNIT:mm

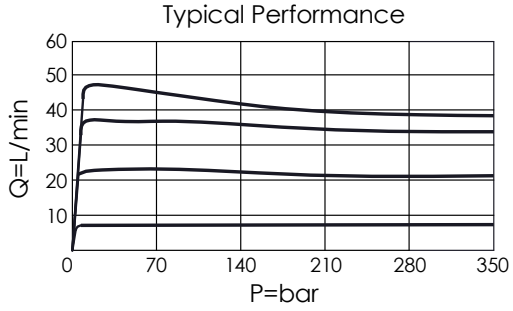
Illustrations / detail are for reference only. Data subject to change.



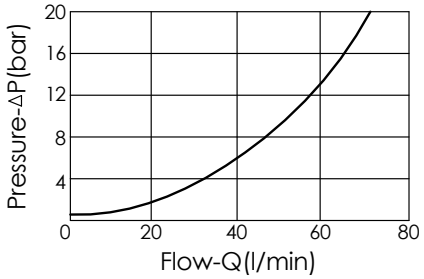
TECHNICAL DATA		
Max. Operating pressure: 350 bar		
Rated flow:	45	l/min
Cavity-Tooling:	5A-2	
Installation torque:	60 - 70	Nm
Weight:	0.27	kg

Accurate pressure compensated control requires that a 200 psi (14 bar) minimum pressure differential be maintained across the valve.

Typical Performance



Reverse Free Flow
with Needle Closed



X	OPERATION	
20	Standard Type	

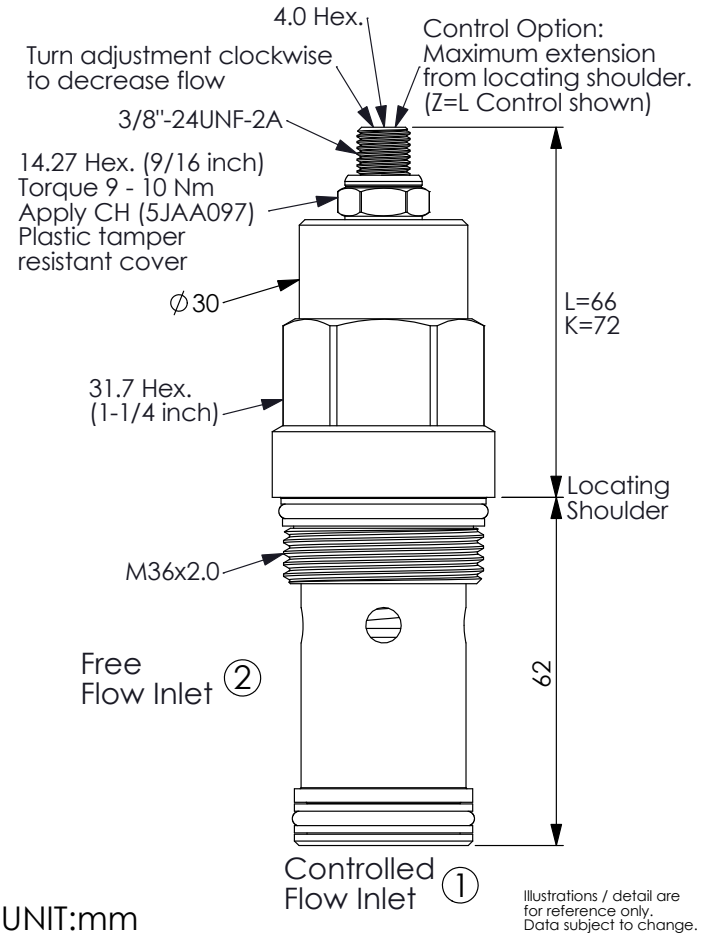
Y	FLOW SETTING	
A	0.4 - 45 LPM	

Z	OPTIONS	
L	Leakproof hex. socket screw.	
LP	Leakproof hex. socket screw. With Stainless Steel External Components	
T	Three-winged Handknob Kit.	
K	Handknob with Lock Knob. (Order Code: 6ZAK001)	

Flow Control Valve

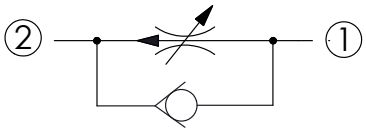
(Fully Adjustable Pressure Compensated Flow Control Valve with Reverse Flow Check and Sharp-Edge Orifice)

Ordering Code: **FR-16A-X-Y-Z**



UNIT:mm

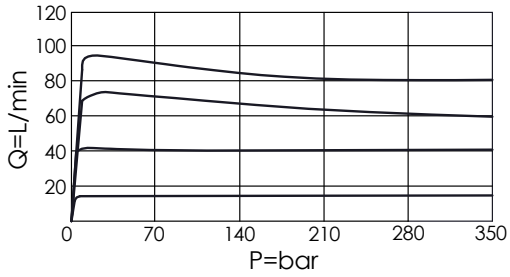
Illustrations / detail are for reference only. Data subject to change.



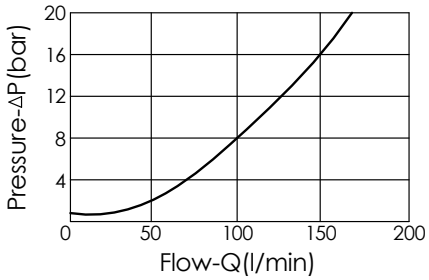
TECHNICAL DATA		
Max. Operating pressure:	350	bar
Rated flow:	95	l/min
Cavity-Tooling:	16A-2	
Installation torque:	200 - 215	Nm
Weight:	0.52	kg

Accurate pressure compensated control requires that a 200 psi (14 bar) minimum pressure differential be maintained across the valve.

Typical Performance

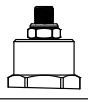
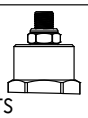
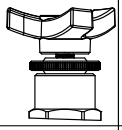


Reverse Free Flow with Needle Closed



X	OPERATION	
20	Standard Type	

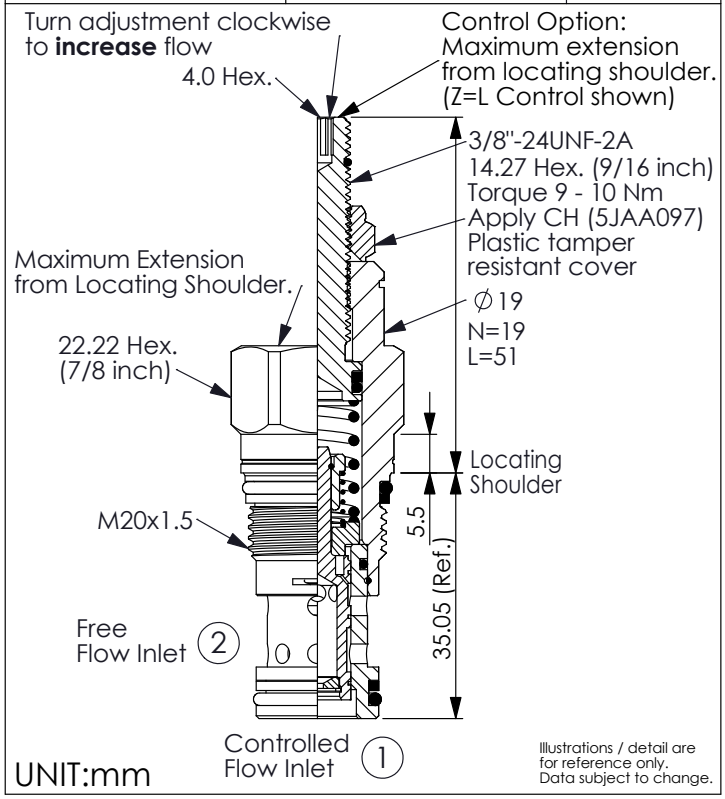
Y	FLOW SETTING	
A	0.8 - 95 LPM	
B	0.8 - 60 LPM	

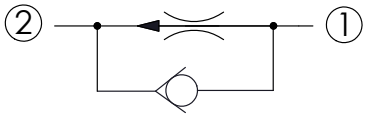
Z	OPTIONS	
L	Leakproof hex. socket screw. 	
LP	Leakproof hex. socket screw. With Stainless Steel External Components 	
T	Three-winged Handknob Kit. 	
K	Handknob with Lock Knob. (Order Code: 6ZAK001) 	

Flow Control Valve

(Fixed Orifice, Pressure Compensated, with Reverse Flow Check)

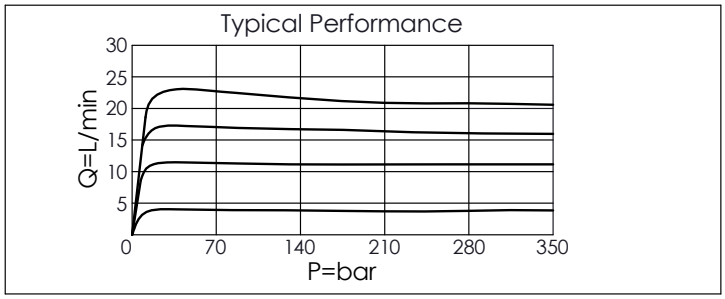
Ordering Code: FR-13A-X-Y-Z





TECHNICAL DATA

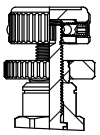
Max. Operating pressure: 350		bar
Rated flow:	0.4 - 23	l/min
Cavity-Tooling:	13A-2	
Installation torque:	40 - 50	Nm
Weight: 0.10 (**Z**=N)	0.14 (**Z**=L)	kg



Y	FLOW SETTING	
0040	0.4 LPM	
0150	1.5 LPM	
0200	2.0 LPM	
0240	2.4 LPM	
0400	4.0 LPM	
1000	10.0 LPM	
1050	10.5 LPM	
1300	13.0 LPM	
1500	15.0 LPM	
1800	18.0 LPM	
2300	23.0 LPM	

- Factory set flow ratings are within ±10% of the requested setting
- Customer must specify a flow rating
- If you need specific flow accuracy, please contact Motus sales department

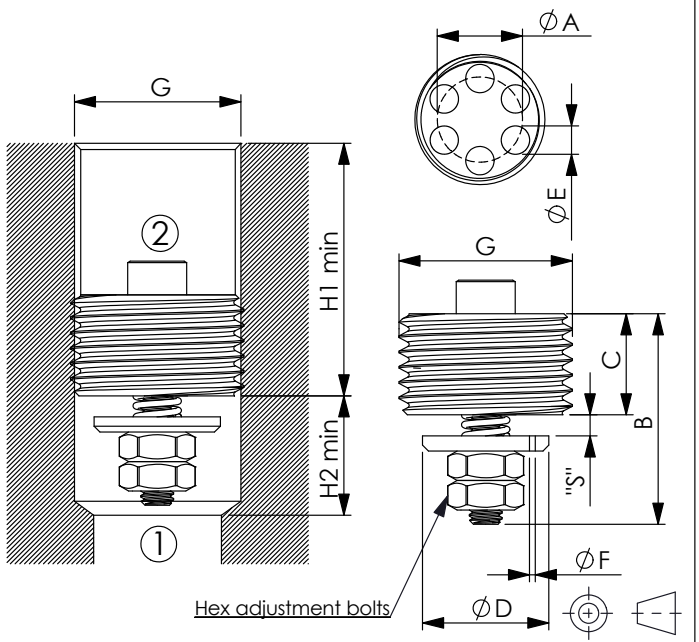
X	OPERATION	
2C	Fixed Setting, with Reverse Flow Check	

Z	OPTIONS		
N	Non-adjustable		
L	Leakproof hex. socket screw. (Adjustment Ranges Approx. ±25%)		
K	Handknob with Lock Knob. (Order Code: 6ZAK001)		

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Hose Burst Protection Valve
(Insert-Type)

Ordering Code: **HB-G04-Y-Z**

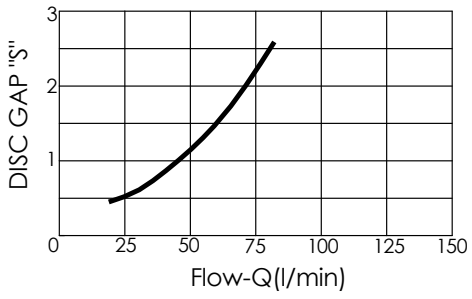


UNIT:mm

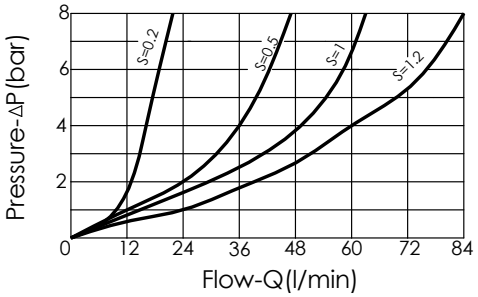
X=	G	A	B	C	D	E	F	H1	H2	Hex
G04	G 1/2"	13	25	12	15	4.5	on request	30	15	7

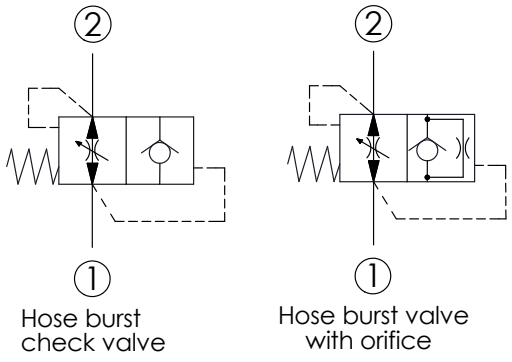
The valve is only supposed to be operated in case of hose failure. In the case of a hose failure, flow increases across the valve until the maximum safe limit is reached at which point the valve will close. The "S" gap must be adjusted to allow a flow at least 50% over the nominal regulated flow from the actuator. These valves can be supplied (on reguest) with an orifice on the disc, allowing an emergency lowering of load. It is recommended to fit a flow regulator valve downstream the hose burst valve, at the end of the flexible hose, to control the lowering speed at the nominal value.

Performance curves (allowance can be ±10% from the curve)
After assembling the valves are **pre-adjusted** at the following valves
"S"= 2.5 mm



Flow performance from ② to ① depending on S-length





TECHNICAL DATA

Max. pressure: 350 bar

Flow: see below graphs ("S"-Q)

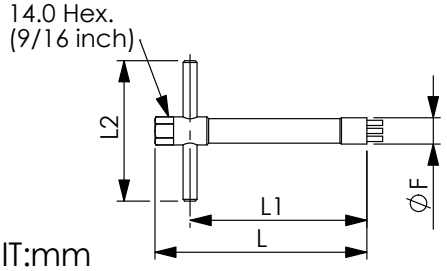
Special flow settings are available. Please contact factory authorized representative for ordering code.

Weight	Flow		TIGHTENING TORQUE Cartridge
kg	min	max	Nm
0.025	16	80	3±1

Y	OPERATION
20	Standard Type

Z	ORIFICE DIAMETER (mm)				
00	no orifice		10	1.0	
05	0.5		12	1.2	
06	0.6		13	1.3	
07	0.7		15	1.5	
08	0.8		19	1.9	
09	0.9		20	2.0	

FITTING TOOL DIMENSION

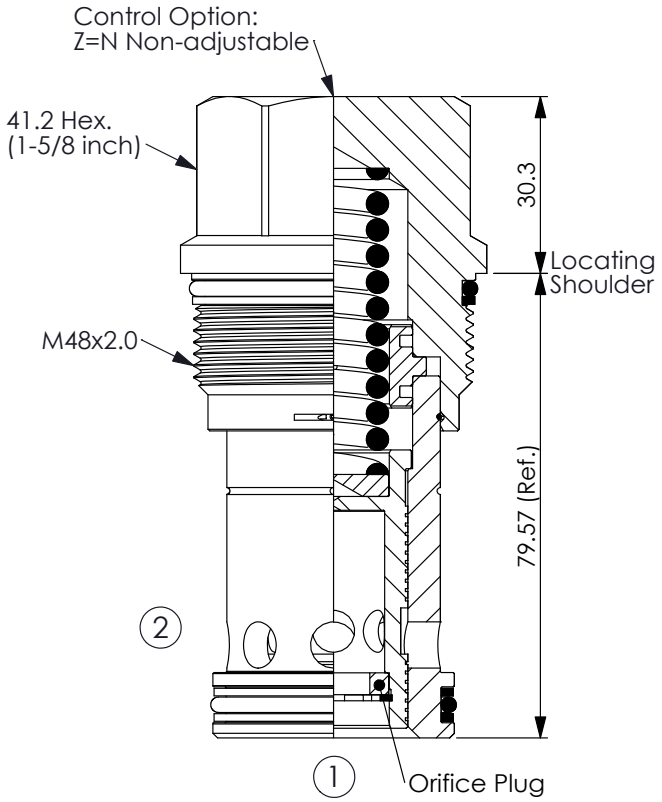


UNIT:mm

F	L	L1	L2	Tool's ordering code
18.8	120	108	80	HBG04-T

Hose Burst Protection Valve

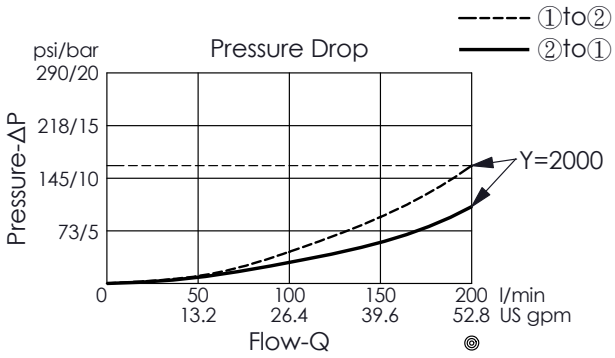
Ordering Code: **HB-18A-X-Y-Z**



UNIT:mm

Illustrations / detail are for reference only. Data subject to change.

TECHNICAL DATA		
Max.Operating pressure:	350	bar
Rated flow:	4 - 200	l/min
Cavity-Tooling:	18A-2	
Installation torque:	465 - 500	Nm
Weight:	0.915	kg

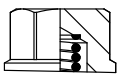


X	OPERATION	
20	Standard Type	

- Maximum Leakage Approximately (80 cc/min./70 bar)
- The valve is designed to protect against hose break. When hose breaks, the flow from port ① to port ② increases. The valve closes when reaches the setting of the valve.

Y	FLOW SETTING (Port ① to Port ②)	
0500	50 LPM	
1000	100 LPM	
2000	200 LPM	

- Factory set flow ratings are within +/- 10% of the requested setting.
- The flow setting has to be at least 25% bigger than the maximum flow of customer's system, customer must specify the flow setting when ordering the valve, our recommendation is 1.5 times of normal using flow.

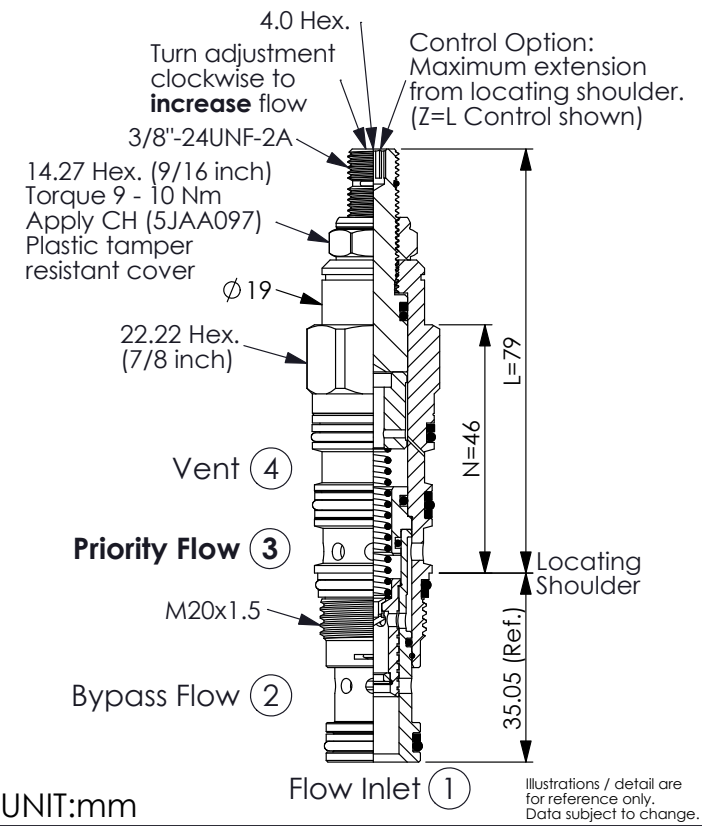
Z	OPTIONS	
N	Non-adjustable 	

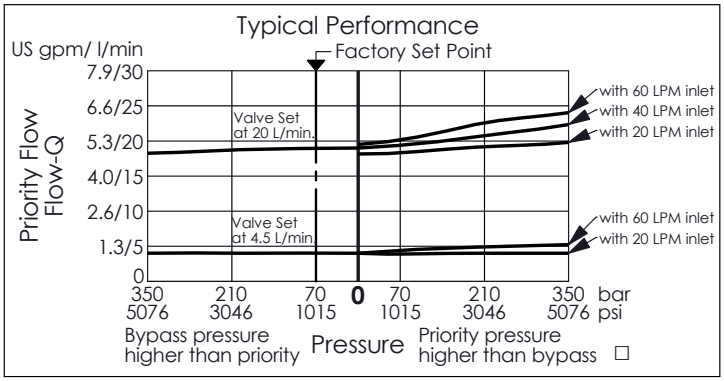
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Priority Flow Control Valve

(Vented, Fixed Orifice, Bypass / Restrictive, Pressure Compensated)

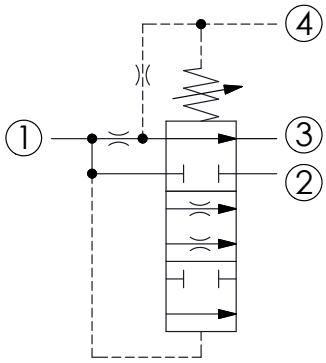
Ordering Code: **FR-21A-X-Y-Z**





Y	Priority Flow (Port ③) (customer must specify flow)		
0004	Example:	0.4 LPM	
0008	Example:	0.8 LPM	
0010	Example:	1.0 LPM	
0012	Example:	1.2 LPM	
0035	Example:	3.5 LPM	
0045	Example:	4.5 LPM	
0080	Example:	8.0 LPM	
0100	Example:	10.0 LPM	
0120	Example:	12.0 LPM	
0200	Example:	20.0 LPM	

- Customer must specify a flow rating
- Factory set flow ratings are within ±10% of the requested setting
- If you need specific flow accuracy, please contact Motus sales department



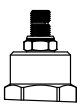
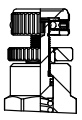
TECHNICAL DATA

Max. Operating pressure:	350	bar
Maximum Inlet Flow:	60	l/min
Priority Flow Ranges:	0.4 - 23	l/min
Nominal Vent Flow Approximately:	0.75	l/min
Cavity-Tooling:	21A-4	
Installation torque:	40 - 50	Nm
Weight :	0.188 (**Z**=L)	kg

- Pressure at the bypass port(port ②) may exceed pressure at the priority port (port ③).
- Both priority and bypass flow are usable up to the system operating pressure.
- Bypass flow is not available until priority flow requirements are satisfied.
- Blocking priority flow will also block bypass flow.
- If use pressure at vented port, then it can control the pressure at priority port.
  When pressure at bypass port exceeds the pressure control setting, the priority port shut off and all flows will go to the bypass port.
- Before priority port are satisfied by flow, the bypass shut off. Unless the vented port connects to tank.
  When the vented port connects to tank, all flows will go to the bypass port if inlet pressure over 10.5 bar.

X	OPERATION	
4F	Vented, Fixed orifice, bypass/restrictive, pressure compensated	

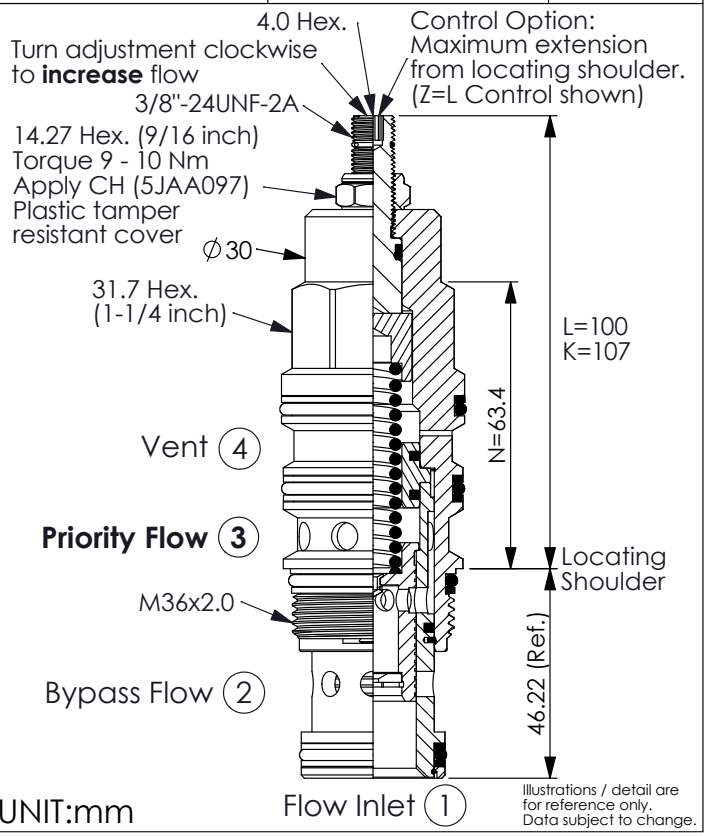
- If a momentary impact pressure is needed in the application, please consult our sales department.

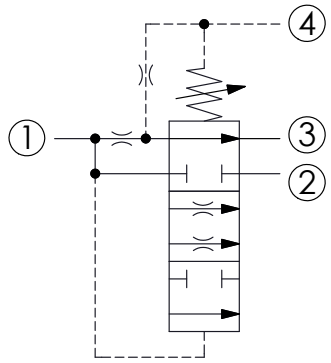
Z	OPTIONS		
N	Non-adjustable (Factory set at customer specified flow)		
L	Leakproof hex. socket screw. (Adjustment Ranges Approx. ±25%)		
K	Handknob with Lock Konb. (Adjustment Ranges Approx. ±25%) (Order Code: 6ZAK001)		

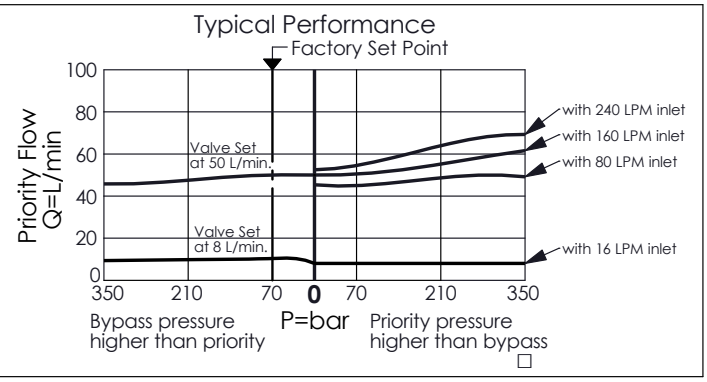
Priority Flow Control Valve

(Vented, Fixed Orifice, Bypass / Restrictive, Pressure Compensated)

Ordering Code: **FR-23A-X-Y-Z**







Y	Priority Flow (Port ③) (customer must specify flow)		
0040	Example:	4.0 LPM	
0070	Example:	7.0 LPM	
0080	Example:	8.0 LPM	
0140	Example:	14.0 LPM	
0250	Example:	25.0 LPM	
0300	Example:	30.0 LPM	
0650	Example:	65.0 LPM	
0750	Example:	75.0 LPM	
0950	Example:	95.0 LPM	

- Customer must specify a flow rating
- Factory set flow ratings are within ±10% of the requested setting
- If you need specific flow accuracy, please contact Motus sales department

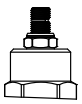
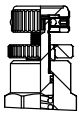
TECHNICAL DATA

Max. Operating pressure:	350	bar
Maximum Inlet Flow:	240	l/min
Priority Flow Ranges:	0.8 - 95	l/min
Nominal Vent Flow Approximately:	0.75	l/min
Cavity-Tooling:	23A-4	
Installation torque:	200 - 215	Nm
Weight :	0.681 (**Z**=L)	kg

- Pressure at the bypass port(port ②) may exceed pressure at the priority port (port ③).
- Both priority and bypass flow are usable up to the system operating pressure.
- Bypass flow is not available until priority flow requirements are satisfied.
- Blocking priority flow will also block bypass flow.
- If use pressure at vented port, then it can control the pressure at priority port.
  When pressure at bypass port exceeds the pressure control setting, the priority port shut off and all flows will go to the bypass port.
- Before priority port are satisfied by flow, the bypass shut off. Unless the vented port connects to tank.
  When the vented port connects to tank, all flows will go to the bypass port if inlet pressure over 10.5 bar.

X	OPERATION	
4F	Vented, Fixed orifice, bypass/restrictive, pressure compensated	

- If a momentary impact pressure is needed in the application, please consult our sales department.

Z	OPTIONS		
N	Non-adjustable (Factory set at customer specified flow)		
L	Leakproof hex. socket screw. (Adjustment Ranges Approx. ±25%)		
K	Handknob with Lock Konb. (Adjustment Ranges Approx. ±25%) (Order Code: 6ZAK001)		

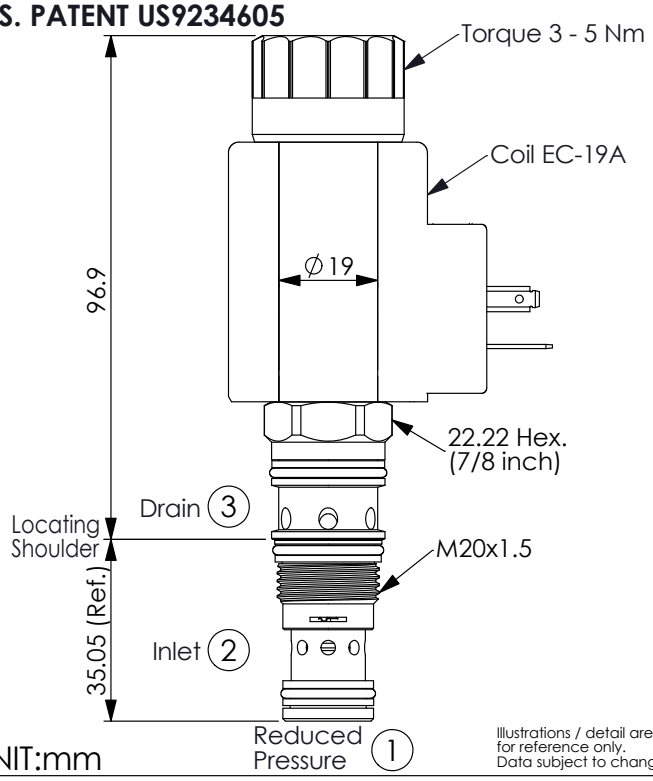
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Reducing / Relieving Valve

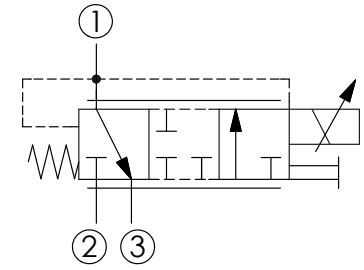
(Electro-Proportional, Direct-Acting, Reducing / Relieving, Fast Response, Low Pressure at Zero Command)

Ordering Code: **PPD-11A-X-Y-Z-74**

U.S. PATENT US9234605



Illustrations / detail are for reference only. Data subject to change.



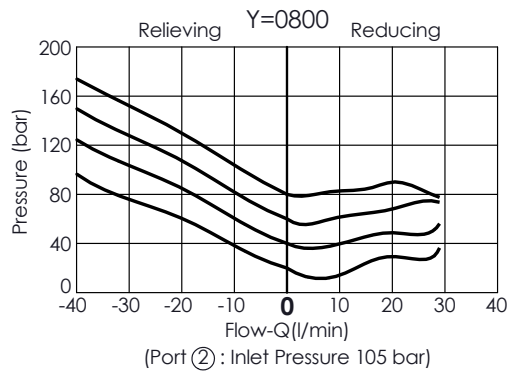
TECHNICAL DATA

Max.Operating pressure:	350	bar
Rated flow:	20	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Linearity (with dither)		<2%
Repeatability (with dither)		<2%
Hysteresis (with dither)		<4%
Hysteresis with DC input		<8%

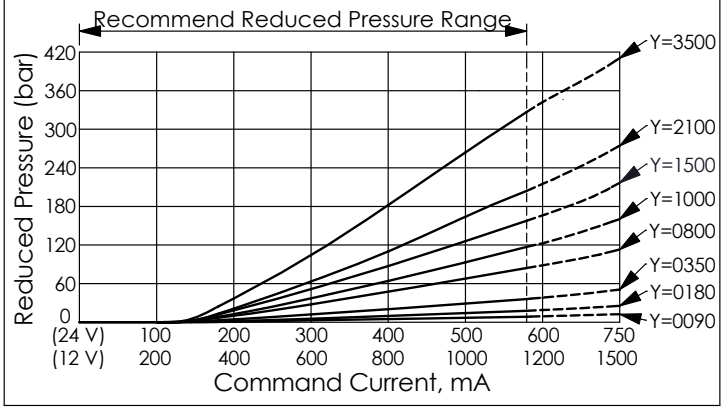
Maximum valve leakage approximately= 40 cc/min.
This leakage is measured at port ③ when port ② is pressurized to 210 bar and the pressure setting at port ① is 105 bar.

Weight:(with Coil)	0.49	kg
(without Coil)	0.25	kg

Hydraulic Fluid Viscosity、Cleanliness、Temperature Level:
Please refer WINNER technical information.
(T.101.101.E HYDRAULIC FLUID (A)VISCOSITY)
(T.101.102.E HYDRAULIC FLUID (B)CLEANLINESS)
(T.101.103.E HYDRAULIC FLUID (C)TEMPERATURE)



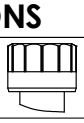
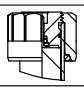
(Port ② : Inlet Pressure 105 bar)



Y	OPERATING RANGE
	Rated Pressure
0090	1 - 9 bar
0180	1 - 18 bar
0350	1 - 35 bar
0800	2 - 80 bar
1000	10 - 100 bar
1500	10 - 150 bar
2100	20 - 210 bar
3500	35 - 350 bar

- When inlet pressure up to 210 - 350 bar, Recommend : Keep "Reduced Pressure" (Port ①) minimum 30 bar to have best control.
- Basically, this valve can be used under 1 bar but please kindly be noted that the back pressure of port ③ will add to the valve setting at 1:1 ratio.
- If your operation need to control under 10 bar, please contact Motus sales department.
  Example: Y=1000、Y=1500、Y=2100、Y=3500

X	OPERATION
3D	3 Ports、22 Watt. Coil ∅19 mm tube

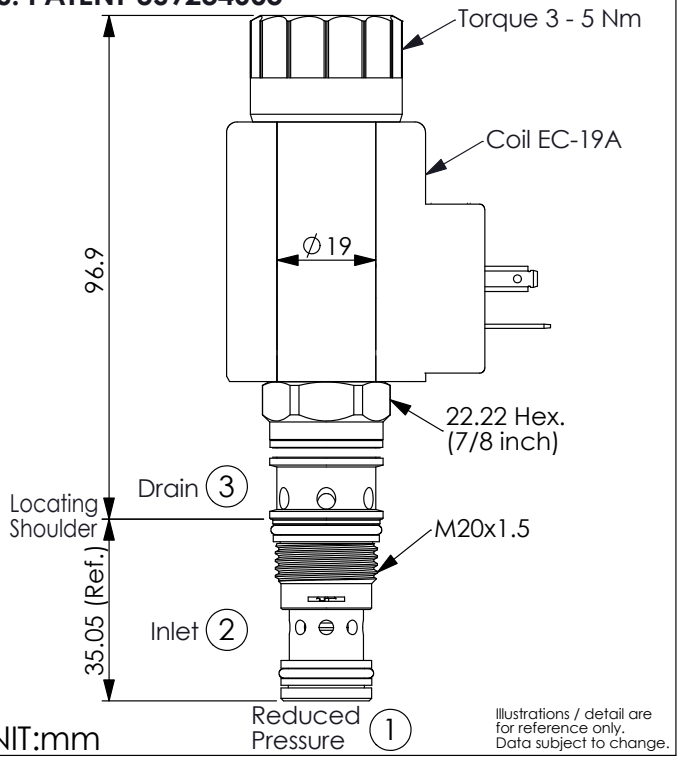
Z	OPTIONS	
N	Non-adjustable	
P	Push Style Manual Override	

Reducing / Relieving Valve

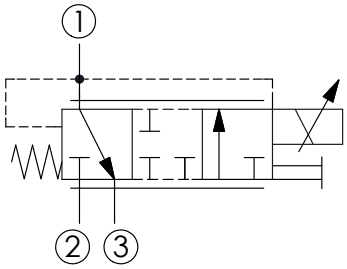
(Electro-Proportional, Direct-Acting, Reducing / Relieving, Fast Response, Low Pressure at Zero Command)

Ordering Code: **PPD-11A-X-Y-Z-74-1**

U.S. PATENT US9234605



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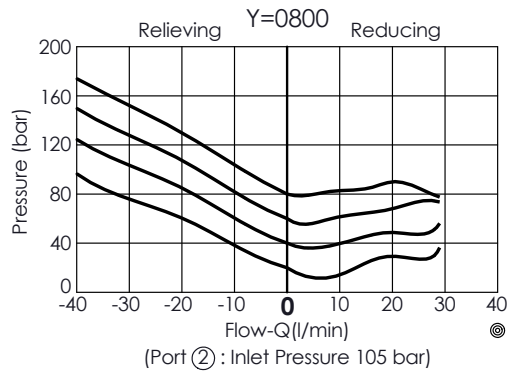
TECHNICAL DATA

Max.Operating pressure:	350	bar
Rated flow:	20	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Linearity (with dither)		<2%
Repeatability (with dither)		<2%
Hysteresis (with dither)		<4%
Hysteresis with DC input		<8%

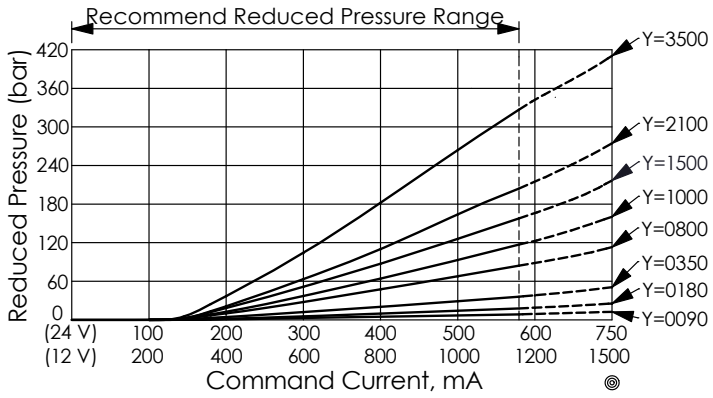
Maximum valve leakage approximately= 20 cc/min.
This leakage is measured at port ③ when port ② is pressurized to 210 bar and the pressure setting at port ① is 105 bar.

Weight:(with Coil)	0.49	kg
(without Coil)	0.25	kg

Hydraulic Fluid Viscosity、Cleanliness、Temperature Level:
Please refer WINNER technical information.
(T.101.101.E HYDRAULIC FLUID (A)VISCOSITY)
(T.101.102.E HYDRAULIC FLUID (B)CLEANLINESS)
(T.101.103.E HYDRAULIC FLUID (C)TEMPERATURE)



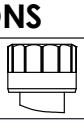
(Port ② : Inlet Pressure 105 bar)



Y	OPERATING RANGE
	Rated Pressure
0090	1 - 9 bar
0180	1 - 18 bar
0350	1 - 35 bar
0800	2 - 80 bar
1000	10 - 100 bar
1500	10 - 150 bar
2100	20 - 210 bar
3500	35 - 350 bar

- When inlet pressure up to 210 - 350 bar, Recommend : Keep "Reduced Pressure" (Port ①) minimum 30 bar to have best control.
- Basically, this valve can be used under 1 bar but please kindly be noted that the back pressure of port ③ will add to the valve setting at 1:1 ratio.
- If your operation need to control under 10 bar, please contact Motus sales department.
  Example: Y=1000、Y=1500、Y=2100、Y=3500

X	OPERATION
3D	3 Ports、22 Watt. Coil ∅19 mm tube

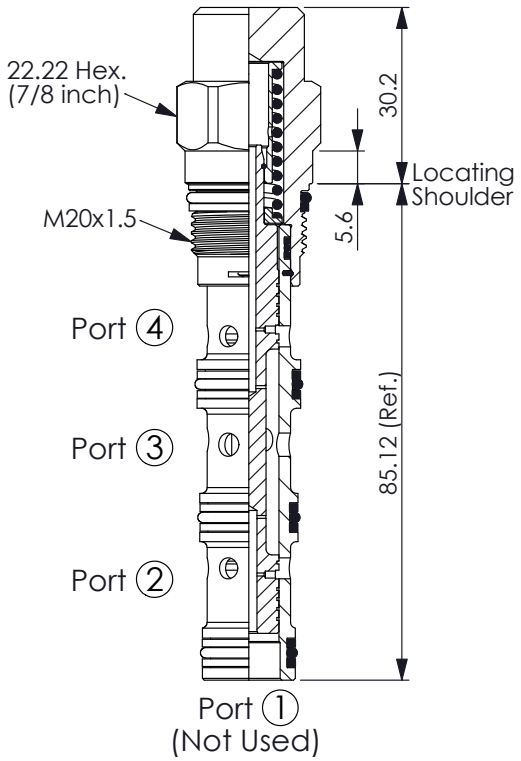
Z	OPTIONS	
N	Non-adjustable	
P	Push Style Manual Override	

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Shuttle Valve

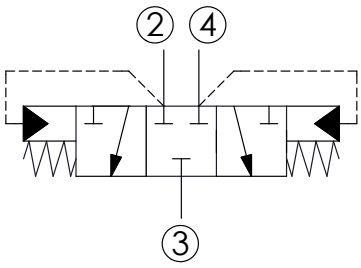
(Low Side, 3-Position, Hot Oil Shuttle Valve)

Ordering Code:	DS-31A-X-Y-Z

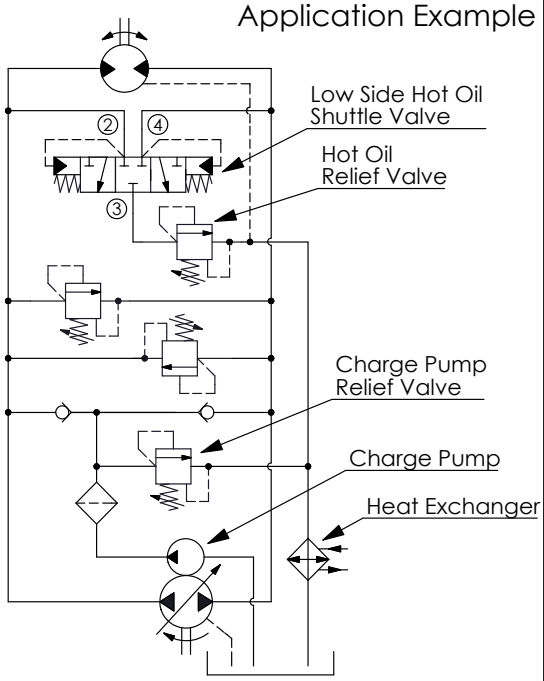


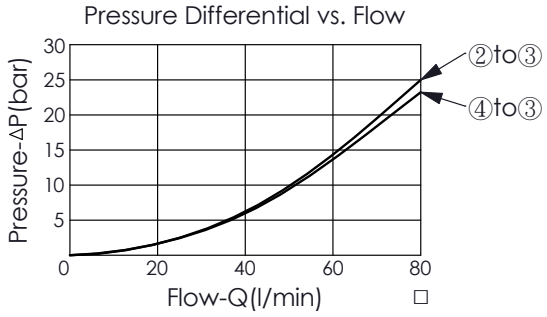
UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



Application Example





TECHNICAL DATA		
Max. pressure:	350	bar
Rated flow:	40	l/min
Cavity-Tooling:	31A-4	
Installation torque:	40 - 50	Nm
Weight:	0.17	kg

Y	SPRING	
	Shifting Pressure	
50	5.0 bar	
100	10.0 bar	
140	14.0 bar	

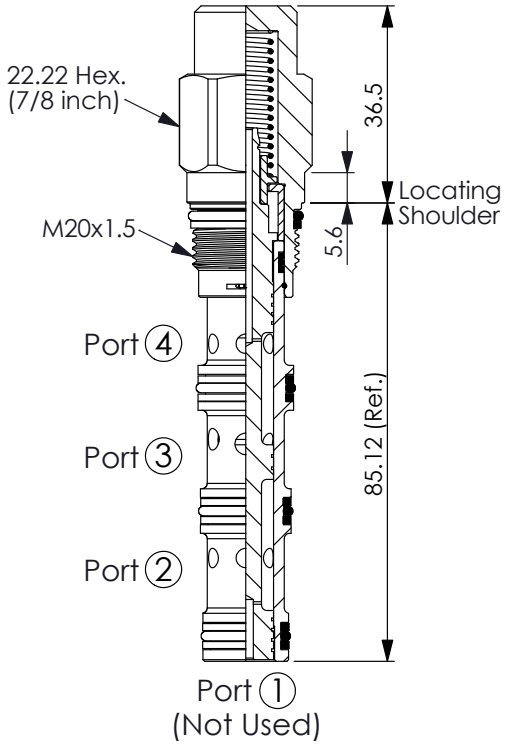
X	OPERATION	
4L	4 Port (Port ① Not Used), Low Side (Hot Oil)	
· Pilot Flow (0.38 l/min.)		

Z	OPTION	
N	Non-adjustable	

Shuttle Valve

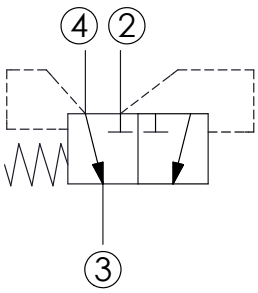
(High Side, 2-Position, Spring Offset, Shuttle Valve)

Ordering Code:	DS-31A-X-Y-Z

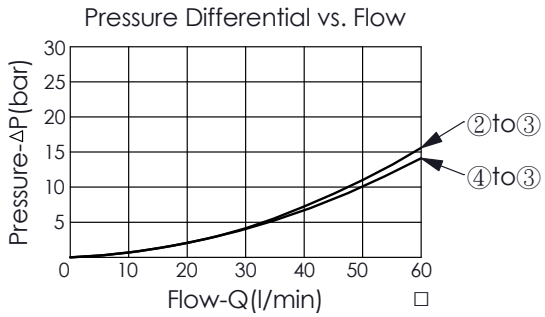


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA		
Max. pressure:	350	bar
Rated flow:	60	l/min
Cavity-Tooling:	31A-4	
Installation torque:	40 - 50	Nm
Weight:	0.18	kg



X	OPERATION	
4S	4 Port (Port ① Not Used), High Side, Spring Offset	

· Maximum Leakage Approximately (15 cc /min./70 bar)

Y	SPRING	
	Shifting Pressure	
20	2.0 bar	
50	5.0 bar	

Z	OPTION	
N	Non-adjustable	

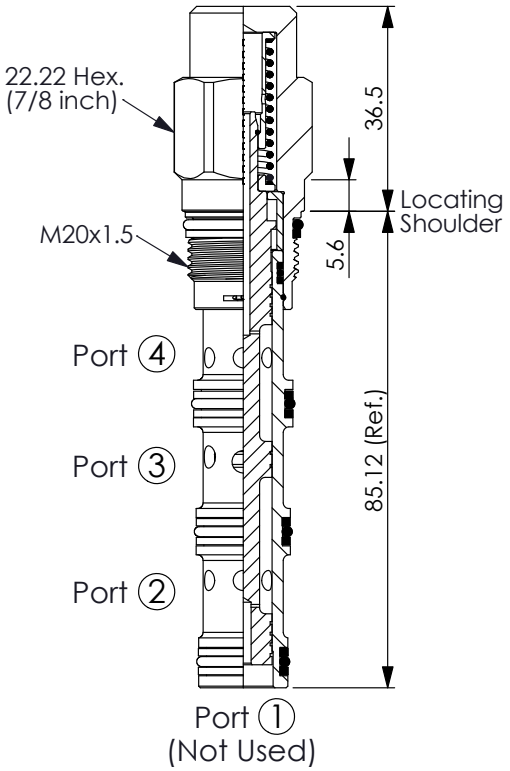
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Shuttle Valve

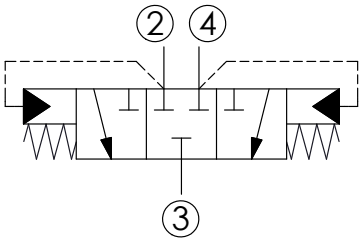
(High Side, 3-Position, Shuttle Valve)

Ordering Code:	DS-31A-X-Y-Z	

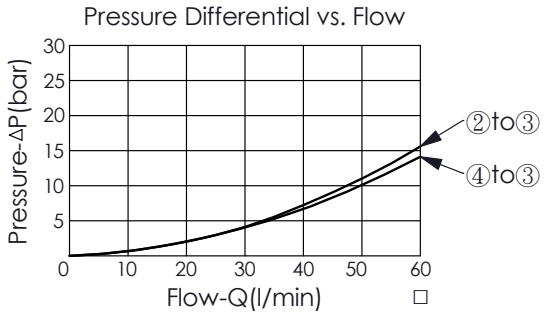


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA		
Max.Operating pressure:	350	bar
Rated flow:	60	l/min
Cavity-Tooling:	31A-4	
Installation torque:	40 - 50	Nm
Weight:	0.18	kg



X	OPERATION	
4H	4 Port (Port ① Not Used), High Side	

· Maximum Leakage Approximately (30 cc/min./70 bar)

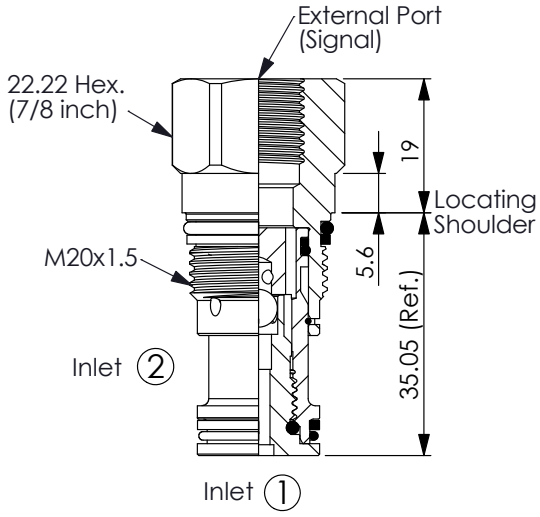
Y	SPRING	
	Shifting Pressure	
20	2.0 bar	
50	5.0 bar	
70	7.0 bar	
105	10.5 bar	

Z	OPTION	
N	Non-adjustable	

Shuttle Valve

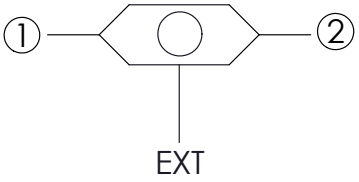
(Single Ball Shuttle Valve with Signal at External Port)

Ordering Code:	LS-13A-X-Y-Z	

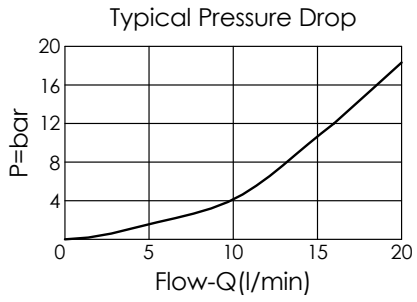


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA		
Max. pressure:	350	bar
Rated flow:	10	l/min
Cavity-Tooling:	13A-2	
Installation torque:	40 - 50	Nm
Weight:	0.10	kg



X	OPERATION	
20	Signal at External Port	

· Maximum Leakage Approximately (0.3 cc/min./70 bar)

Y	SPRING	
N	Non-Spring	

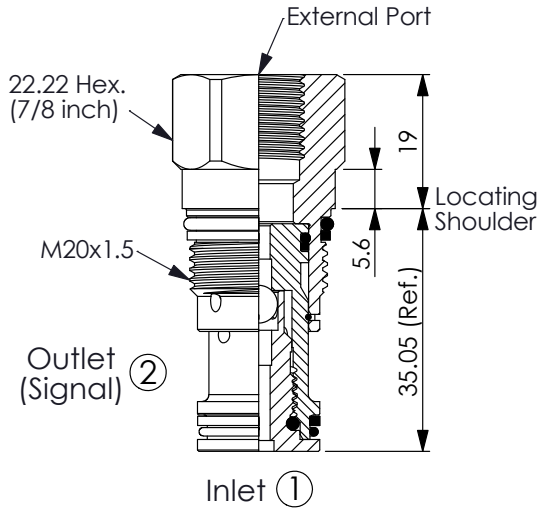
Z	OPTION	
G02	External G1/4" Port	
S04	External SAE-4 Port (7/16"-20UNF-2B)	

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Shuttle Valve

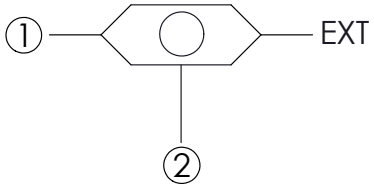
(Single Ball Shuttle Valve with Signal at Port 2)

Ordering Code:	LS-13A-X-Y-Z	

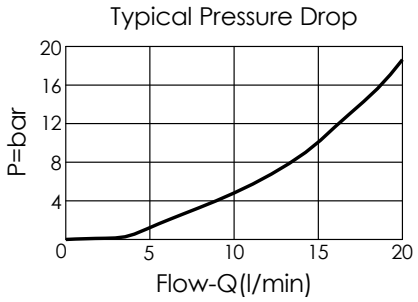


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA		
Max. Operating pressure: 350		bar
Rated flow:	10	l/min
Cavity-Tooling:	13A-2	
Installation torque:	40 - 50	Nm
Weight:	0.11	kg



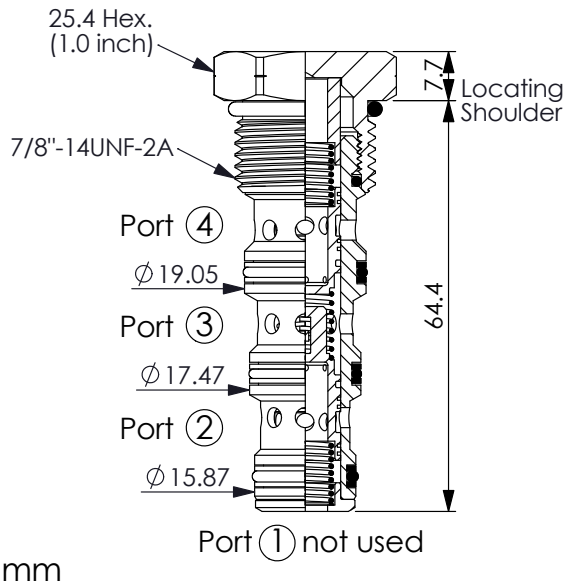
X	OPERATION	
22	Signal at Port ② (Standard)	

· Maximum Leakage Approximately (0.3 cc/min./70 bar)

Y	SPRING	
N	Non-Spring	

Z	OPTION	
G02	External G1/4" Port	
S04	External SAE-4 Port (7/16"-20UNF-2B)	

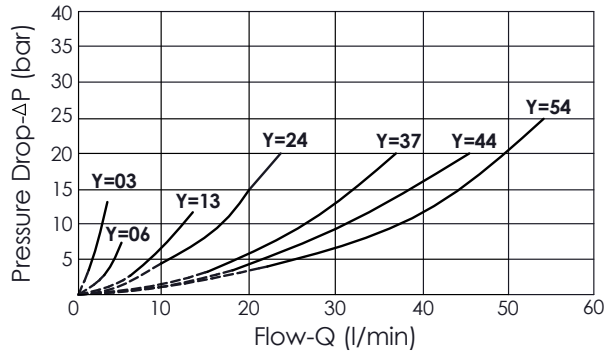
Ordering Code:	FD-10W-X-Y-Z



UNIT:mm

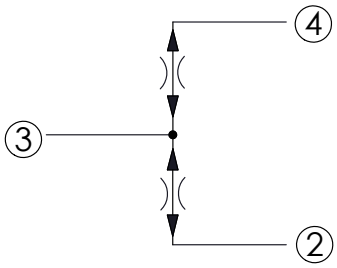
(1)The FD10W-40 will divide inlet flow from port ③ to port ② and port ④, based on the ratio specified,regardless of operating pressure.
(2)The valve will combine inlet flow from both port ② and port ④ to port ③.
(3)**If circuit operation result in a blockage of either ② or ④, the opposite port may also close under certain conditions.**

Port ③ Inlet Performance Chart



Y	NOMINAL CAPACITY	
03	1.2 - 3 LPM Ratio 50:50	
06	3 - 6 LPM Ratio 50:50	
13	6 - 13 LPM Ratio 50:50	
24	10 - 24 LPM Ratio 50:50	
37	15 - 37 LPM Ratio 50:50	
44	18 - 44 LPM Ratio 50:50	
54	22 - 54 LPM Ratio 50:50	

· Other ratio options available; consult factory
∗**Note: Please make sure the flow dividing and combining at port ③ are in the flow range. If the flow exceed the maximum range, risk may be able to damage valve, and leads abnormally flow dividing and combining. If the flow is lower than the minimum range, the accuracy will reduce substantially.**



Port ① not used

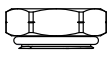
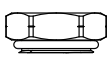
TECHNICAL DATA		
Pressure min-max:	10 - 350	bar
Rated Inlet Flow:	54	l/min
Cavity-Tooling:	10W-4	
Installation torque:	35 - 45	Nm
Weight:	0.11 (**Z**=N,NP)	kg

Flow Accuracy: 10% from 40-100% of Max.Inlet flow

Hydraulic Fluid Viscosity、Cleanliness、Temperature Level:
Please refer Motus technical information.
(T.101.101.E HYDRAULIC FLUID (A)VISCOSITY)
(T.101.102.E HYDRAULIC FLUID (B)CLEANLINESS)
(T.101.103.E HYDRAULIC FLUID (C)TEMPERATURE)

Mounting Position: unrestricted

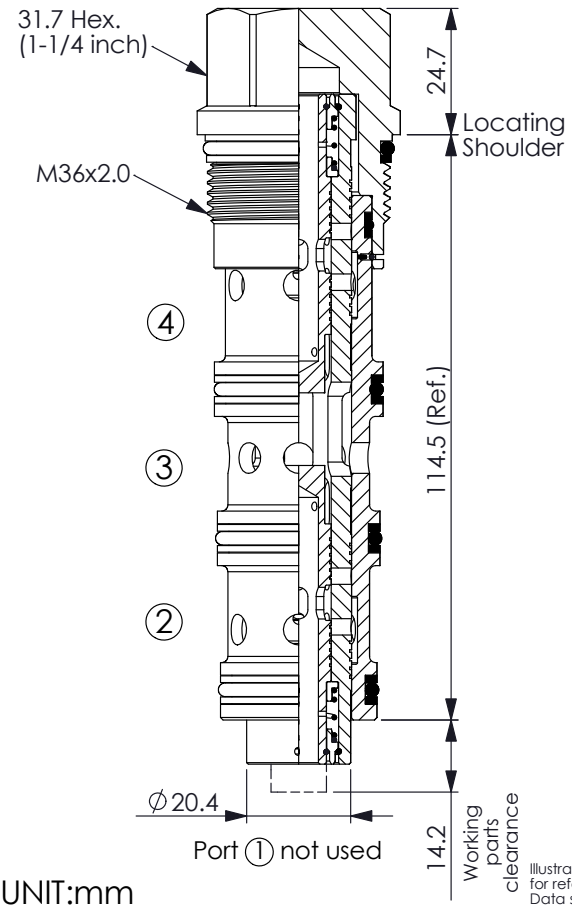
X	OPERATION	
40	4 Ports; Flow Divider/Combiner	

Z	OPTION	
N	Non-adjustable 	
NP	Non-adjustable With stainless steel external metal components (Buna-N Seal) 	

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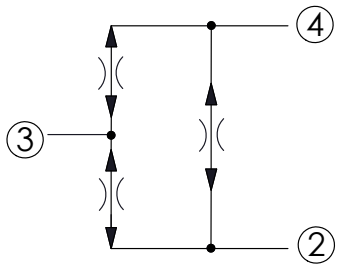
Flow Divider / Combiner Valve
(Anti-Stall Features)

Ordering Code: **FD-33A-X-Y-Z**



UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



Port ① not used

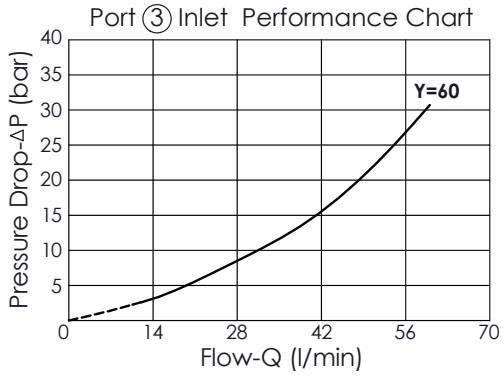
TECHNICAL DATA

Max. Operating pressure: 350 bar		
Divisional accuracy at rated maximum inlet flow = 50% ± 2.0% Divisional accuracy at rated minimum inlet flow = 50% ± 3.0%		
Cavity-Tooling:	33A-4	
Installation torque:	200 - 215	Nm
Weight:	0.65	kg

Capacity:12-60 LPM

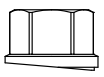
Split	Inlet Flow		Rated Accuracy	Maximum Possible Flow Variation
50:50	Max Rated	60 L/min	±2.0%	28.8 - 31.2 L/min
	Min Rated	12 L/min	±3.0%	5.6 - 6.4 L/min
Tolerance of Synchronizing Flow				3.4 - 6.6 L/min

The maximum possible variation is at 350 bar differential between legs with high pressure leg being the higher flow in dividing mode and the lower flow in combining mode



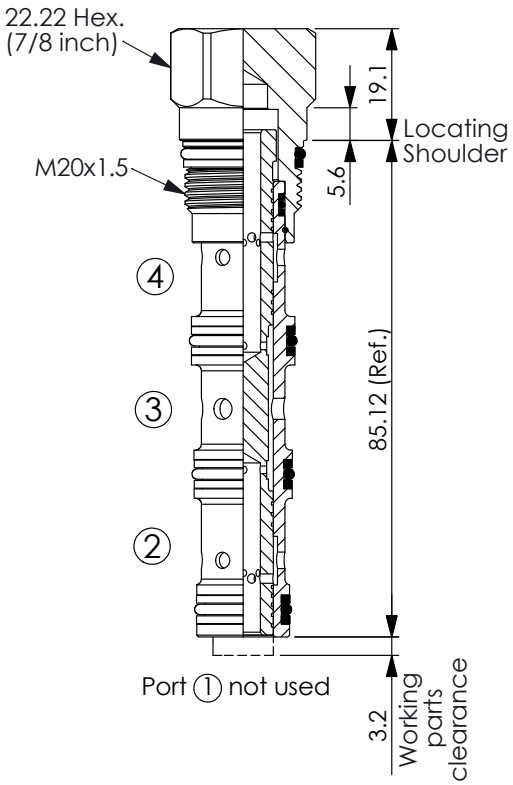
X	OPERATION	
42	4 Ports; Flow Divider/Combiner (Anti-Stall Features) (This type will keep a flow to both combining ports ② and ④ when port ② or ④ is "free-wheeling." This function keeps parallel hydraulic-motor drive circuits from stalling in the combining mode.)	

Y	NOMINAL CAPACITY	
60	12 - 60 LPM	

Z	OPTIONS	
A	Synchronizing High Accuracy 	

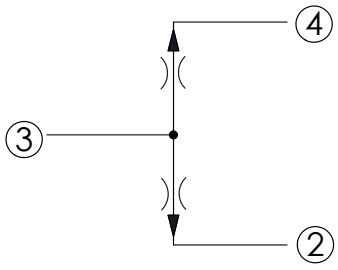
Flow Divider Valve

Ordering Code:	FD-31A-X-Y-Z



UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



Port ① not used

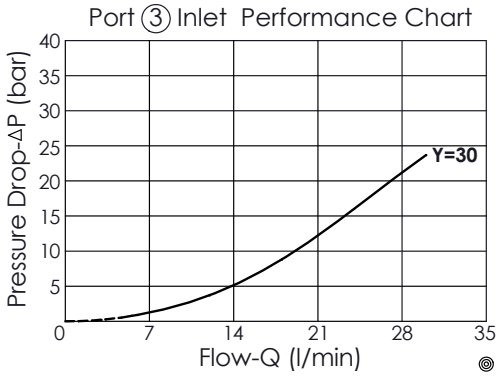
TECHNICAL DATA

Max. Operating pressure: 350 bar		
Divisional accuracy at rated maximum inlet flow = 30 l/min ±3.5% Divisional accuracy at rated minimum inlet flow = 6 l/min ±6.5%		
Cavity-Tooling:	31A-4	
Installation torque:	40 - 50	Nm
Weight:	0.151	kg

Capacity: 6 - 30 LPM

Split	Inlet Flow		Rated Accuracy	Maximum Possible Flow Variation
				High Flow Leg
50:50	Max. Rated	30 L/min	±3.5%	14.1 - 15.9 L/min
	Min. Rated	6 L/min	±6.5%	2.5 - 3.5 L/min

The maximum variation is at 350 bar differential between legs with the high pressure leg being the higher flow.



X	OPERATION	
41	4 Ports;Flow Divider	

Y	NOMINAL CAPACITY	
30	6 - 30 LPM	

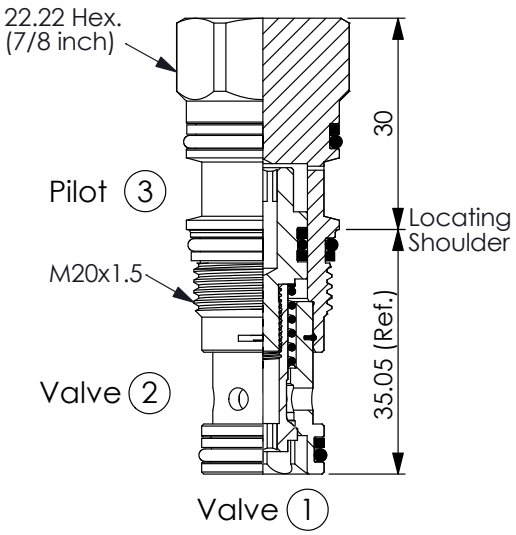
Z	OPTIONS	
N	Non-adjustable	

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Logic Element Valve

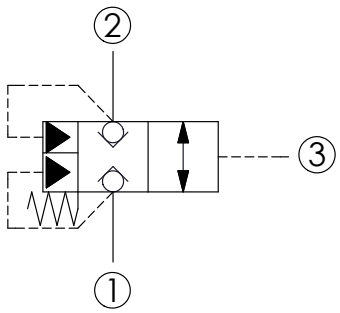
(Pilot-to-Open, Spring Biased Closed, Unbalanced Poppet Logic Element)

Ordering Code:	LC-11A-X-Y-Z



UNIT:mm

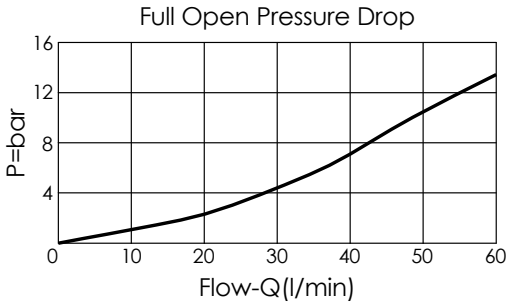
Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

Max. Operating pressure: 350		bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.13	kg

Area ratio:A3 to A1 = 1.8:1
Area ratio:A3 to A2 = 2.25:1



X	OPERATION	
3C	Port ③ pilot source	

- Maximum Leakage Approximately (0.7 cc/min./70 bar)
- All ports will accept 350 bar.

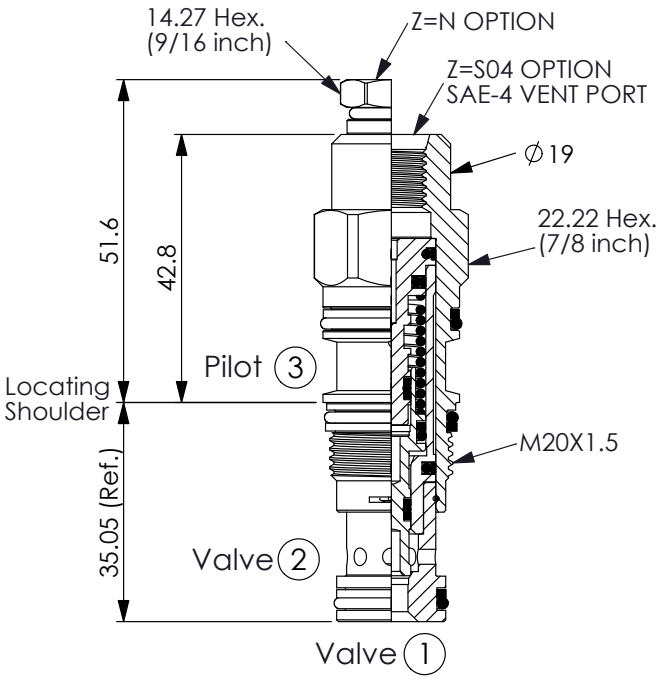
Y	SPRINGS	
	Cracking pressure	
35	3.5 bar at port ③	

Z	OPTIONS	
N	Non-adjustable	
NP	Non-adjustable With stainless steel external metal components (Buna-N Seal)	

Logic Element Valve

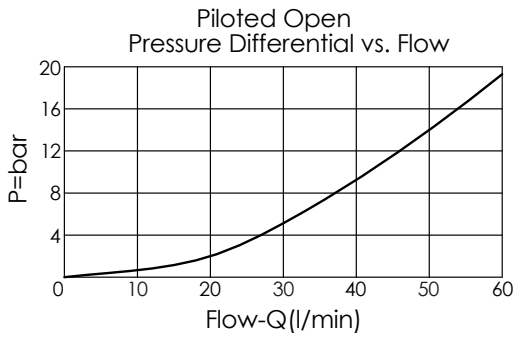
(Pilot-to-Open, Normally Closed, Balanced Poppet Logic Element)

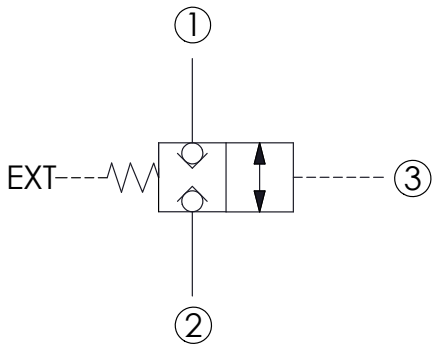
Ordering Code:	**LB-11A-X-Y-Z**



UNIT:mm

Illustrations / detail are for reference only. Data subject to change.





TECHNICAL DATA

Max. Operating pressure: 350		bar
Rated flow:	60	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.14 (**Z**=N) 0.13 (**Z**=S04)	kg

X	**OPERATION**
3S	Pilot-to-open

- Maximum Leakage Approximately (0.7 cc/min./70 bar)
- All ports will accept 350 bar.
- Approximately 1 drop (0.07 cc) of fluid will pass from the pilot area to the vented spring chamber every 4000 cycles.

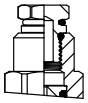
Y	**SPRINGS**
	Recommendation of Minimum Pilot Pressure Required to Shift Valve (Port ③)
28	28 bar

- We suggest that using above 28 bar pilot pressure at Port ③ when Port ① and Port ② are 350 bar. In order to ensure shifting quickly for every kinds of pressure and flow.
- When the pilot pressure at port ③ is higher than 14 bar, the valve will open.
- When the pilot pressure at port ③ is below 10 bar, the valve will close.

10	10 bar

- We suggest that using above 10 bar pilot pressure at Port ③ when Port ① and Port ② are 350 bar. In order to ensure shifting quickly for every kinds of pressure and flow.
- When the pilot pressure at port ③ is higher than 5 bar, the valve will open.
- When the pilot pressure at port ③ is below 4 bar, the valve will close.

- If you have any question about using condition of shifting pressure and circuit, please feel free to consult with our sales dept.

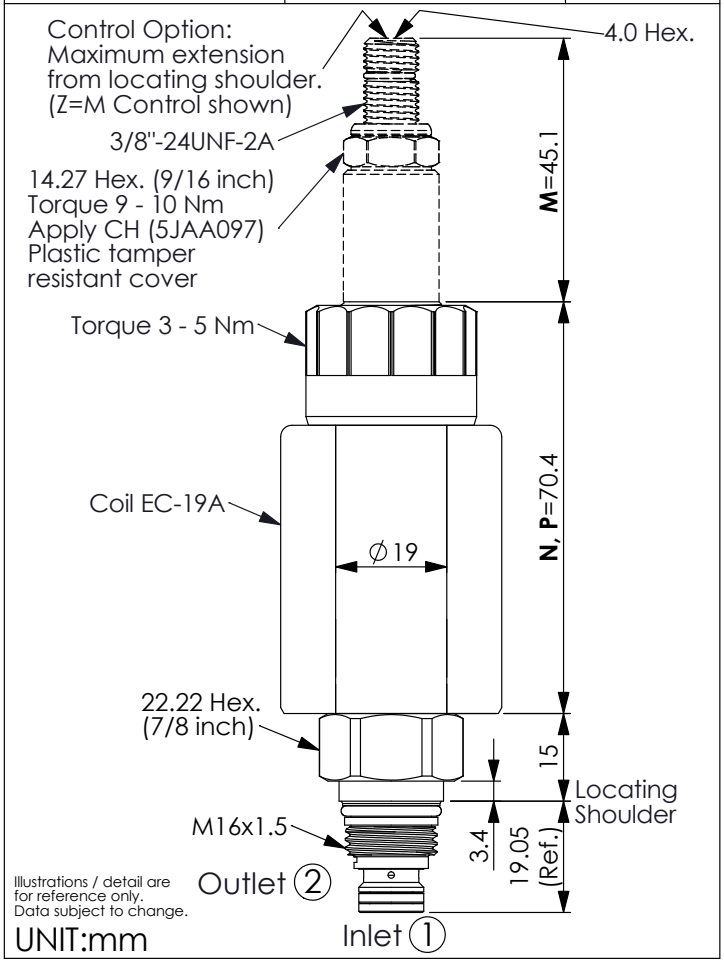
Z	**OPTIONS**	
N	Non-adjustable	
S04	External SAE-4 Port (7/16"-20UNF-2B)	

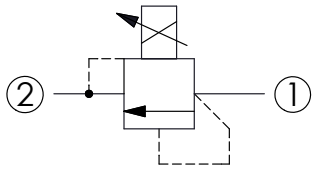
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Pilot Capacity Proportional Relief Valve

(Standard Direct Acting, Low Pressure with No Command)

Ordering Code: PRB-8A-X-Y-Z





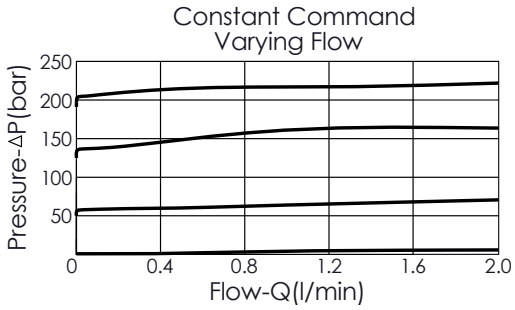
TECHNICAL DATA

Max.Operating pressure:	350	bar
Rated flow:	1	l/min
(Max. flow:	2	l/min)
	(Refer To Performance Chart)	
Cavity-Tooling:	8A-2	
Installation torque:	27 - 33	Nm
Weight:	0.207 (**Z**=N) kg (Without Coil)	

Coils must be ordered separately

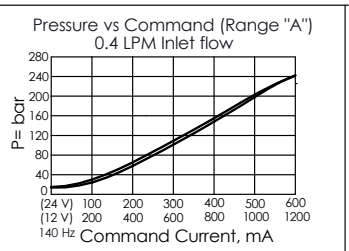
- Maximum Valve Leakage at Reseat Approximately (25 cc/min.)
- Reseat exceeds 85% of cracking pressure
- Back pressure on the tank port (port ②) is directly additive at a 1:1 ratio to valve setting
- Hysteresis with DC input < 8%
- Hysteresis with dither < 4%
- Linearity with dither < 2%
- To achieve optimal performance, it is recommended to use a current-sensing amplifier with a dither function. The dither frequency should be adjustable between 100 Hz and 250 Hz. (recommended range: 140 - 200 Hz)

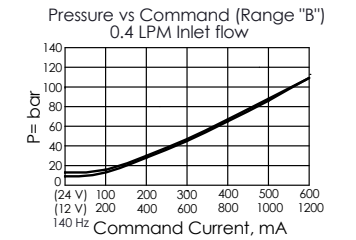
X	OPERATION	
2D	2 Ports、22 Watt. Coil ∅19 mm tube	

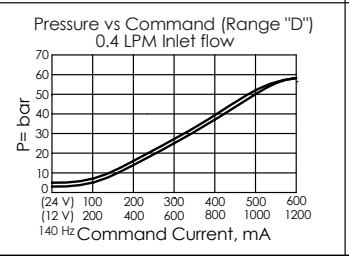


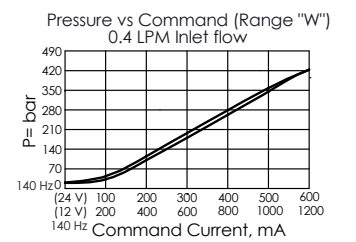
Y	CONTROL PRESSURE RANGES (RECOMMEND PRESSURE RANGE)	
A	up to 210 bar (Best Proportional Pressure Control Range 20 - 210 bar)	
B	up to 105 bar (Best Proportional Pressure Control Range 10.5 - 105 bar)	
D	up to 50 bar (Best Proportional Pressure Control Range 3.5 - 50 bar)	
W	up to 350 bar (Best Proportional Pressure Control Range 35 - 350 bar)	

- If pressure control beyond the range is required, please contact the **Motus** sales department.







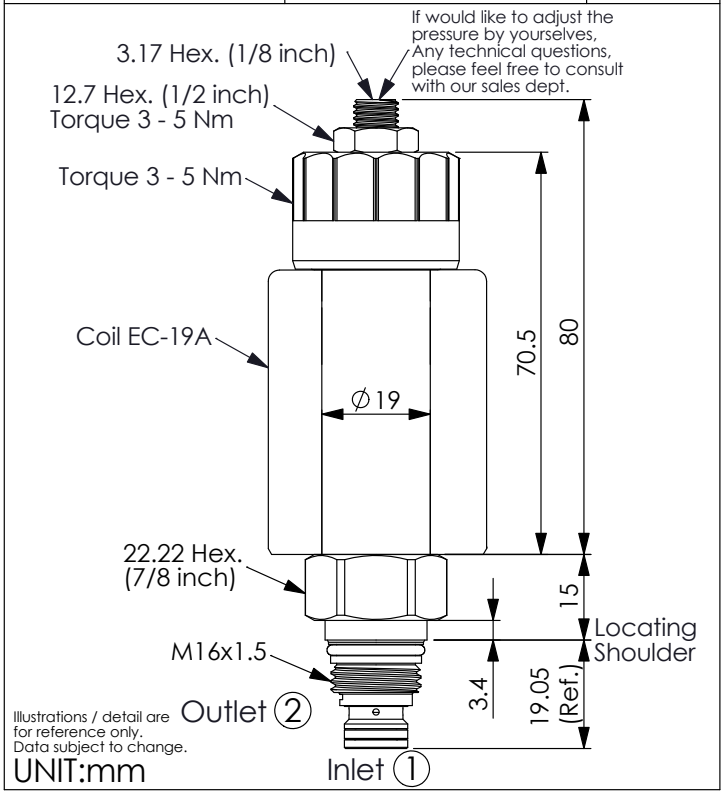


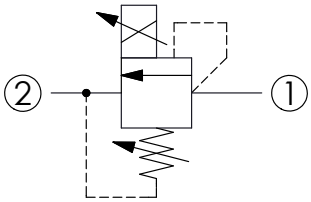
Z	OPTIONS	
N	Non-adjustable	
M	A Manual Control Adjustment Screw (Emergency or Test Usage) The factory setting is the valve fully open (turn counterclockwise completely). Manual adjustment is allowed in case of electrical failure. Preset spring is allowed (clockwise). For example, when Y=A, manual adjustment pressure is preset at 70 bar, at maximum current, the set pressure is approximately 310 bar. ∗If the reverse function is required, please choose PRA-8A-2D-Y-Z-74.	
P	Push Style Manual Override	

Pilot Capacity Proportional Relief Valve

(Inverse Direct Acting, High Pressure Setting with No Command)

Ordering Code: **PRA-8A-X-Y-Z-74**



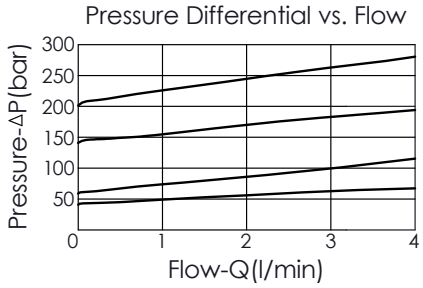


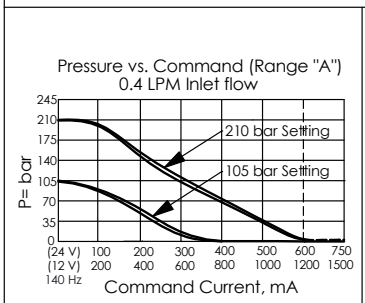
TECHNICAL DATA

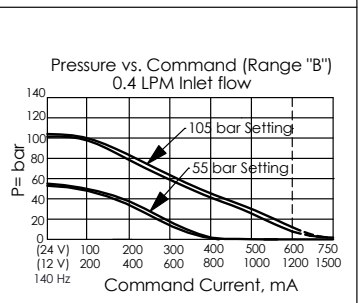
Max.Operating pressure:	350	bar
Rated flow:	1	l/min
(Max. flow:	2	l/min)
(Refer To Performance Chart)		
Cavity-Tooling:	8A-2	
Installation torque:	27 - 33	Nm
Weight:	0.211 kg	(Without Coil)

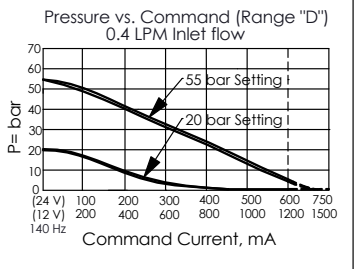
Coils must be ordered separately

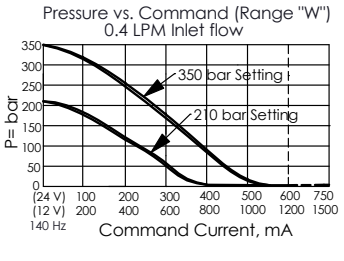
- Maximum Valve Leakage at Reseat Approximately (25 cc/min.)
- Reseat exceeds 85% of cracking pressure
- Back pressure on the tank port (port ②) is directly additive at a 1:1 ratio to valve setting
- Hysteresis with DC input < 8%
- Hysteresis with dither < 4%
- Linearity with dither < 2%
- To achieve optimal performance, it is recommended to use a current-sensing amplifier with a dither function. The dither frequency should be adjustable between 100 Hz and 250 Hz. (recommended range: 140 - 200 Hz)











X	OPERATION	
2D	2 Ports、22 Watt. Coil Ø19 mm tube	

Y	HIGH PRESSURE ADJUSTMENT RANGES (RECOMMEND PRESSURE RANGE)	
	Customer has to specify a relief setting that falls within the selected pressure range	
A	210 - 105 bar	
B	105 - 55 bar	
D	55 - 20 bar	
W	350 - 210 bar	

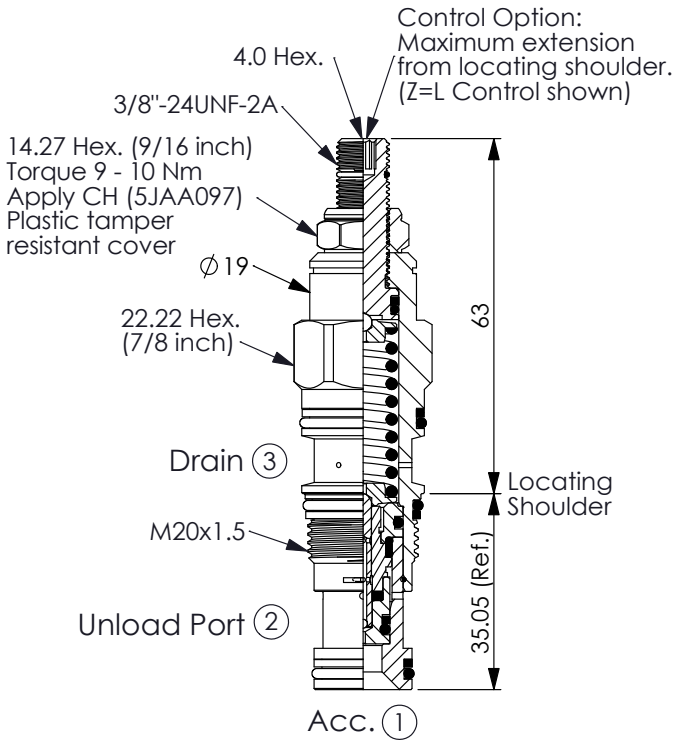
- High-pressure setting with no command.
- The factory pressure setting is based on use with the RV11A30CL main valve.
- To meet the pressure requirements and reduce setting inaccuracies, please contact Motus if pressure setting is required and advise which main valve you intend to use.
- If pressure control beyond this range is required, please contact the Motus sales department.

Z	OPTIONS	
L	Leakproof hex. socket screw. (Standard Type)	

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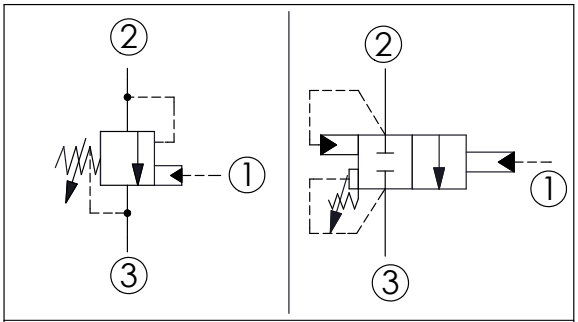
Accumulator Sense, Pump Unload Valve

Ordering Code:	QP-11A-X-Y-Z

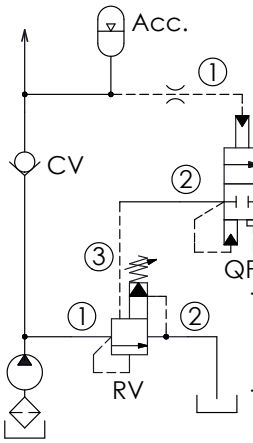


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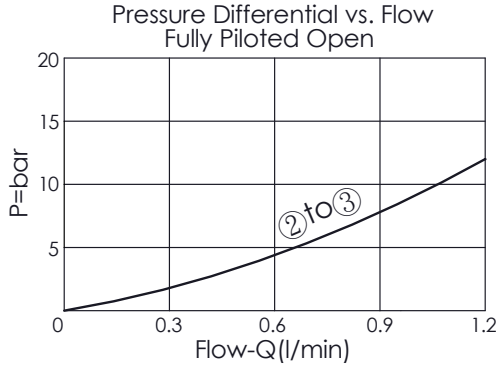
Illustrations / detail are for reference only. Data subject to change.



Typical Circuit



- Recommend With RV Series, Relief Valve, Fast-Acting. Example: RV11A30-Y-Z-85
- Please kindly contact Motus if you need detailed information.



TECHNICAL DATA

Max.Operating pressure:	350	bar
Rated flow:	0.8	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.16	kg

Note: Careful consideration should be given when selecting an adjustment range. System pressure drops and flows tend to affect the operation of unloading valves.

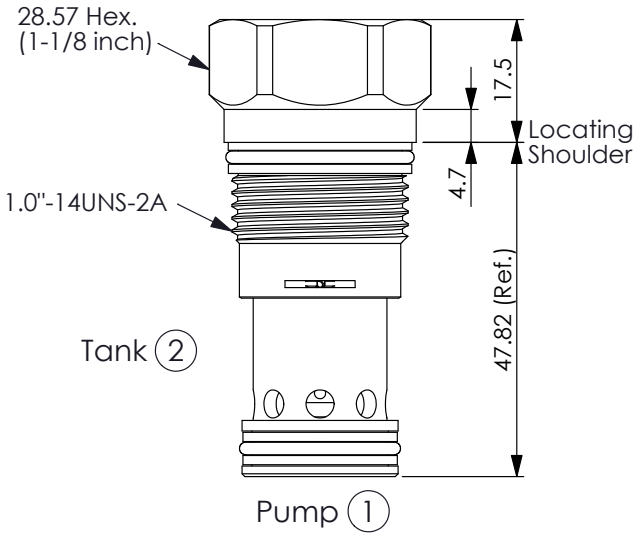
Y	SPRINGS	
	RECOMMEND ADJUSTMENT RANGES	
A	70 - 210 bar (70 bar Standard Setting)	
B	35 - 105 bar (35 bar Standard Setting)	
C	140 - 350 bar (140 bar Standard Setting)	
D	18 - 55 bar (18 bar Standard Setting) (If a lower setting pressure is required, please contact the Motus sales department.)	

X	OPERATION	
3A	15% Nominal Differential	
32	20% Nominal Differential	
33	30% Nominal Differential	
35	50% Nominal Differential	

Z	OPTIONS	
L	Leakproof hex. socket screw. 	

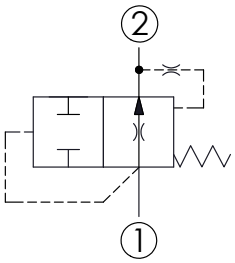
Air Bleed Start-Up Valve

Ordering Code:	NQ-3A-X-Y-Z

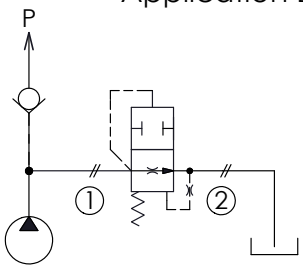


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



Application Example

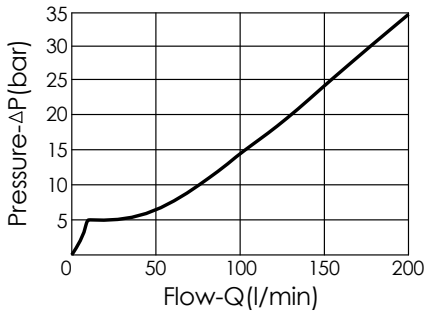


TECHNICAL DATA

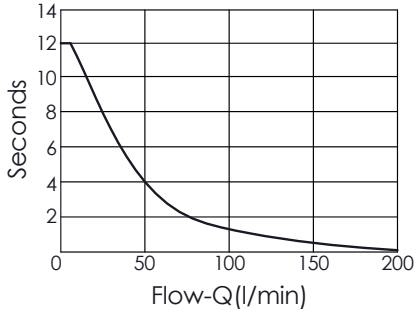
Max. Operating pressure:	350	bar
Rated flow:	15 - 200	l/min
Cavity-Tooling:	3A-2	
Installation torque:	60 - 70	Nm
Weight:	0.18	kg

- Air-bleed and start-up valves require a minimum of 15 L/min. flow rate 5.5 bar system pressure
- The valve will re-open when system pressure falls blow 1.7 bar
- After air been purged, closing times vary from approximately 12 seconds at 15 L/min. to 0.5 seconds at 200 L/min.

Typical Pressure Drop



Approximate Closing Time after Air has been Purged



X	OPERATION	
20	Standard Type	

Y	FLOW RANGE	
A	15 - 200 LPM	

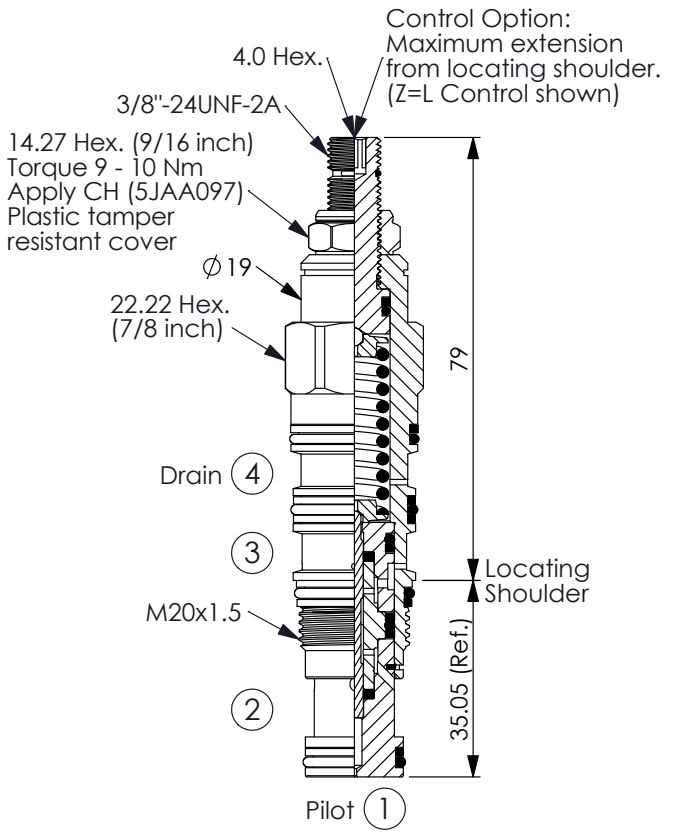
Z	OPTIONS	
N	Non-adjustable	
NP	Non-adjustable With stainless steel external metal components (Buna-N Seal)	

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Directional Valve

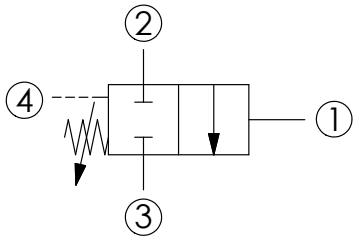
(2-Way, 2-Position, Pilot-to-Shift, Direct Acting, Normally Closed, Drain)

Ordering Code:	**DD-21A-X-Y-Z**

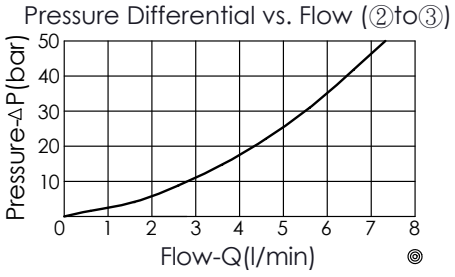


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



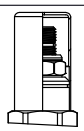
TECHNICAL DATA		
Max. pressure:	350	bar
Rated flow:	2	l/min
Cavity-Tooling:	21A-4	
Installation torque:	40 - 50	Nm
Weight:	0.195 (**Z**=L)	kg



X	OPERATION	
44	Normally-Closed, Port ① pilot to shift, Port ② to Port ③	

· Maximum Leakage Approximately (20 drops/min.)

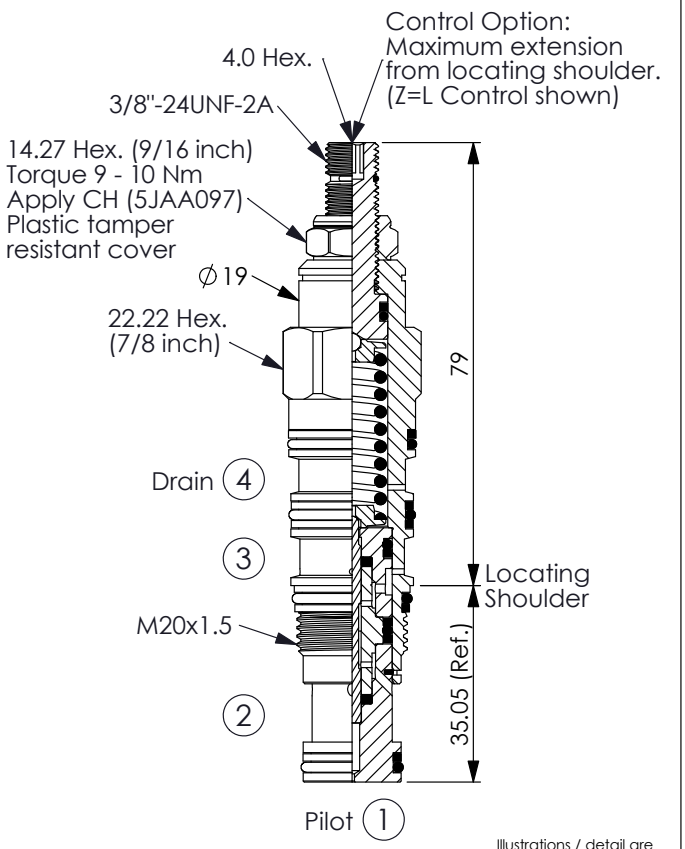
Y	PRESSURE SETTING	
A	70 - 210 bar (70 bar Standard Setting)	
C	140 - 420 bar (140 bar Standard Setting)	

Z	OPTIONS		
L	Leakproof hex. socket screw.		
C	Stainless Steel Tamper Resistant Cover.		

Directional Valve

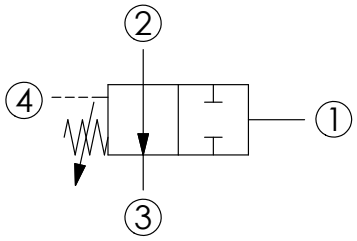
(2-Way, 2-Position, Pilot-to-Shift, Direct Acting, Normally Open, Drain)

Ordering Code: **DD-21A-X-Y-Z**

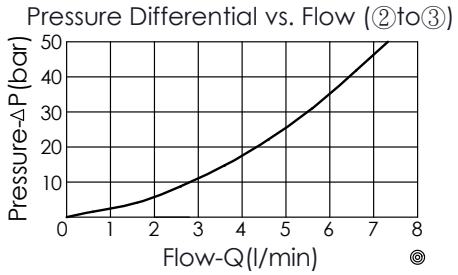


UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



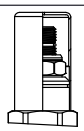
TECHNICAL DATA		
Max. pressure:	350	bar
Rated flow:	2	l/min
Cavity-Tooling:	21A-4	
Installation torque:	40 - 50	Nm
Weight:	0.195 (**Z**=L)	kg



X	OPERATION
45	Normally-Open, Port ② to Port ③, Port ① pilot to shift, Closed Port ② to Port ③

· Maximum Leakage Approximately (20 drops/min.)

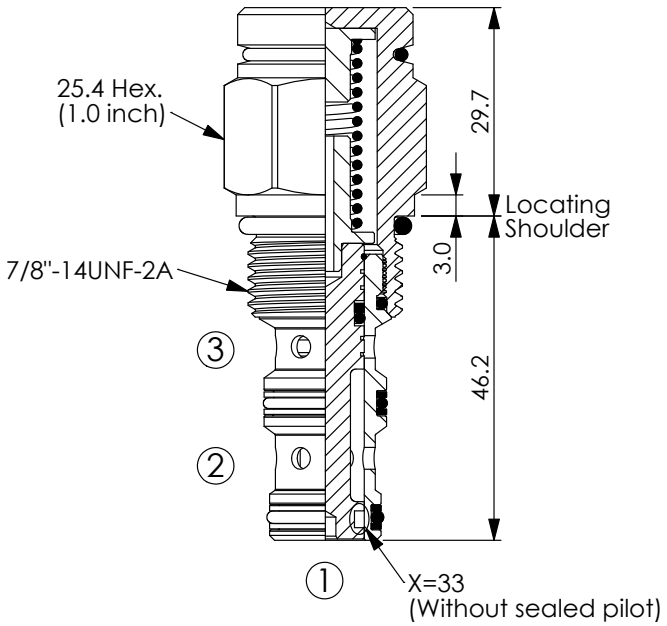
Y	PRESSURE SETTING
A	70 - 210 bar (70 bar Standard Setting)
C	140 - 420 bar (140 bar Standard Setting)

Z	OPTIONS	
L	Leakproof hex. socket screw.	
C	Stainless Steel Tamper Resistant Cover.	

Directional Valve

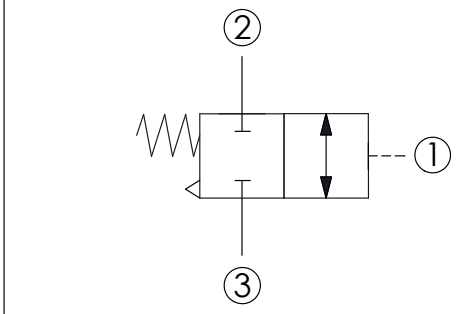
(Piloted 2-Position 2-Way Spool, Normally Closed) (Vented, Atmospherically Referenced)

Ordering Code:	DD-10W-X-Y-Z



UNIT:mm

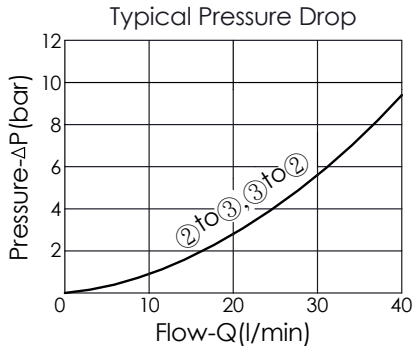
Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

Max. pressure:	350	bar
Rated flow:	38	l/min
Cavity-Tooling:	10W-3	
Installation torque:	35 - 45	Nm
Weight:	0.163	kg

· Approximately 1 drop (0.07 cc) of fluid will pass from the pilot area to the vented spring chamber every 4000 cycles.



X	OPERATION	
33	Normally Closed (Port ① spool without sealed pilot)	
3C	Normally Closed (Port ① spool with sealed pilot)	

· Maximum Leakage Approximately (82 cc/min./210 bar)

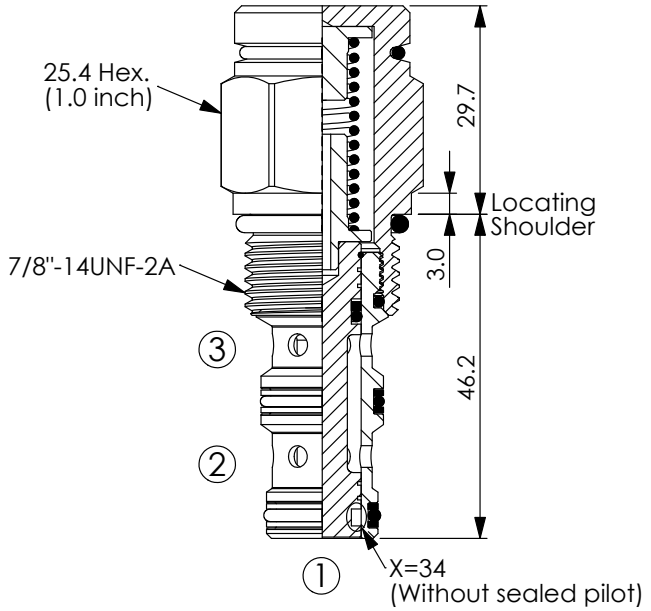
Y	SPRINGS	
	Cracking pressure	
41	4.1 bar	
76	7.6 bar	
117	11.7 bar	

Z	OPTIONS	
N	Non-adjustable	

Directional Valve

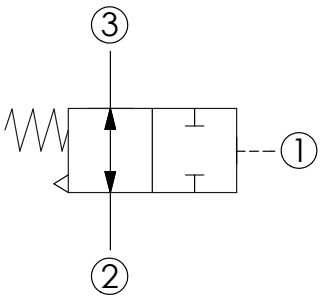
(Piloted 2-Position 2-Way Spool, Normally Open) (Vented, Atmospherically Referenced)

Ordering Code:	DD-10W-X-Y-Z



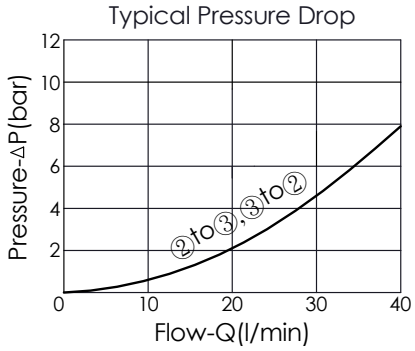
UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA		
Max. pressure:	350	bar
Rated flow:	38	l/min
Cavity-Tooling:	10W-3	
Installation torque:	35 - 45	Nm
Weight:	0.159	kg

- Approximately 1 drop (0.07 cc) of fluid will pass from the pilot area to the vented spring chamber every 4000 cycles.
- The rated pressure of WINNER's products are complied with NFPA T2.6.1 fatigue test. Please refer Motus technical information. (T.101.108.E TECHNICAL DATA STATEMENT) (T.101.109.E FATIGUE AND BURST PRESSURE TEST STANDARD)



X	OPERATION	
34	Normally Open (Port ① spool without sealed pilot)	
3D	Normally Open (Port ① spool with sealed pilot)	

- Maximum Leakage Approximately (82 cc/min./210 bar)

Y	SPRINGS	
	Cracking pressure	
41	4.1 bar	
76	7.6 bar	
117	11.7 bar	

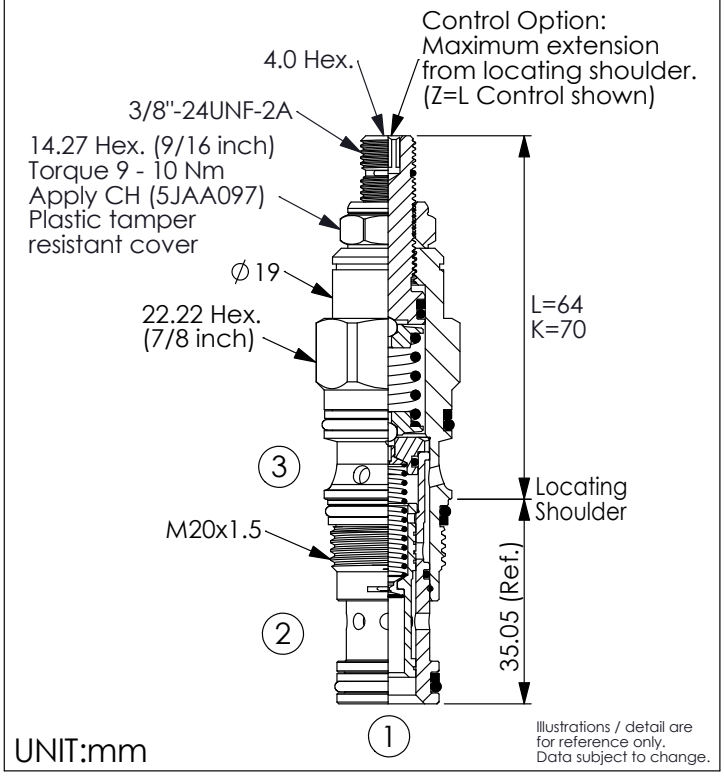
Z	OPTIONS	
N	Non-adjustable	

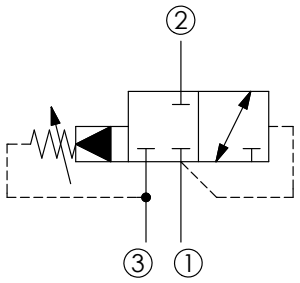
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Directional Valve

(3 - Way, 2-Position, Pilot Operated, With Internal Drain To Port 3, Normally Closed)

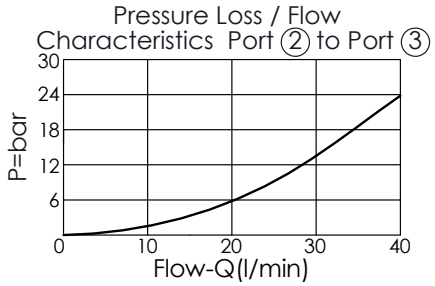
Ordering Code:	**DP-11A-X-Y-Z**

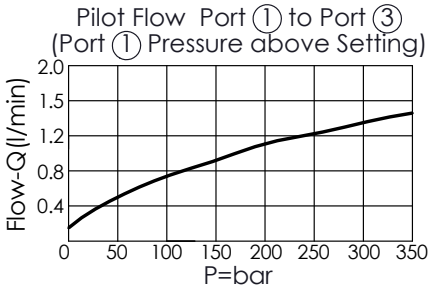




TECHNICAL DATA

Max. Operating pressure: 350		bar
Rated flow:	28	l/min
Cavity-Tooling:	11A-3	
Installation torque:	40 - 50	Nm
Weight:	0.146 (**Z**=L)	kg

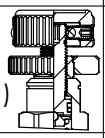
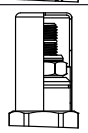




X	OPERATION	
3N	Normally closed; Port 1 pilot to shift, Port 2 to Port 3	

· When the pressure at port 1 exceed the setting pressure, there is a control pilot flow (0.10 - 0.16 L/min.)

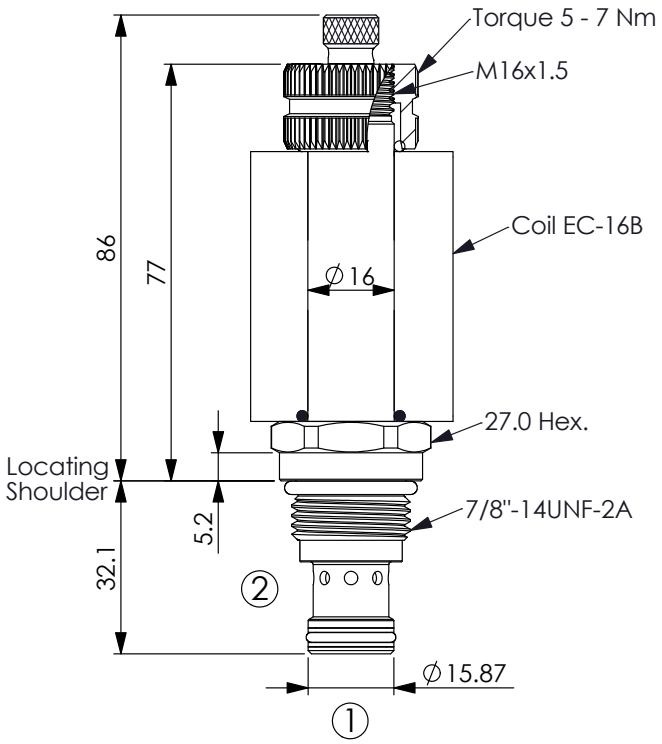
Y	SPRINGS ADJUSTMENT RANGES	
A	7 - 210 bar (70 bar Standard Setting)	
B	3.5 - 105 bar (70 bar Standard Setting)	
C	10.5 - 420 bar (70 bar Standard Setting)	
D	1.7 - 55 bar (28 bar Standard Setting)	
E	1.7 - 28 bar (14 bar Standard Setting)	
K	5 - 105 bar (70 bar Standard Setting)	
W	10.5 - 315 bar (70 bar Standard Setting)	

Z	OPTIONS		
L	Leakproof hex. socket screw.		
K	Handknob with Lock Knob. (Order Code: 6ZAK001)		
C	Stainless Steel Tamper Resistant Cover.		

Solenoid Operated Valve

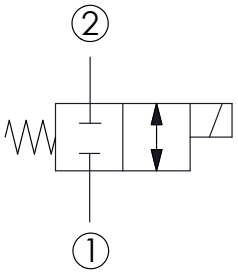
(Direct-Acting) (Spool 2-Way Normally Closed)

Ordering Code: **ES-10W-X-Y-Z-04**



UNIT:mm

Illustrations / detail are for reference only. Data subject to change.



TECHNICAL DATA

Rated pressure:	350 bar (Refer To Performance Chart)
Rated flow:	25 l/min (Refer To Performance Chart)
Cavity-Tooling:	10W-2
Installation torque:	44 - 56 Nm
Weight:	0.19 (**Z**=N) 0.24 (**Z**=M) kg

Response time depending on pressure and flow	ON	30 - 60 ms
	OFF	20 - 40 ms

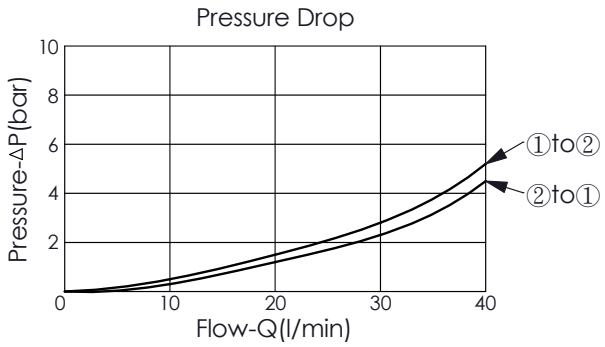
Hydraulic Fluid Viscosity、Cleanliness、Temperature Level:
Please refer Motus technical information.
(T.101.101.E HYDRAULIC FLUID (A)VISCOSITY)
(T.101.102.E HYDRAULIC FLUID (B)CLEANLINESS)
(T.101.103.E HYDRAULIC FLUID (C)TEMPERATURE)

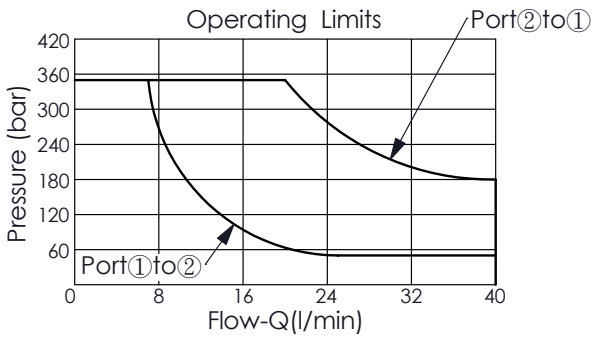
Minimum Voltage Required:
90 % of nominal

Coils must be ordered separately

Mounting Position: unrestricted

Performance Chart





The performance curve or data is only for reference, as customers' using condition, pressure, flow, hydraulic fluid viscosity, cleanliness, temperature and so on are different, the curve or data will be different.

X	STRUCTURE	
2C	2 Ports、26 Watt. Coil ϕ 16 mm tube	

Y	OPERATION	
14	Spool 2-Way,2-Position Normally-Close	

Z	OPTIONS	
N	Non-adjustable 	
M	Screw-out Knob Style 	

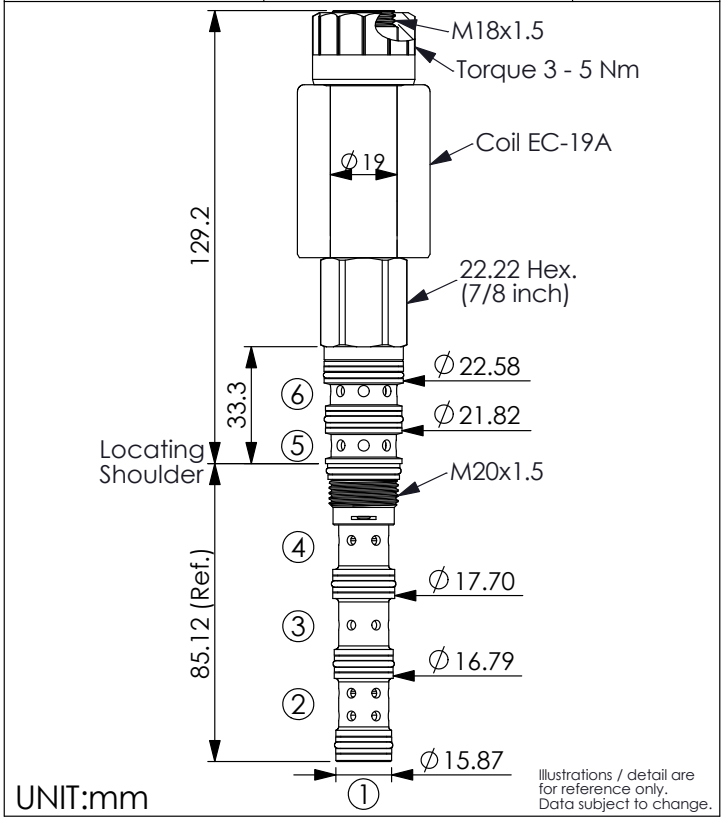
MOTUS

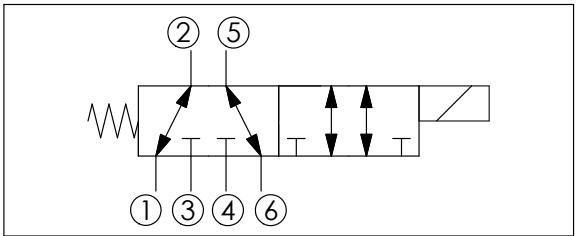
NZ 0800 668 874 | AU 1800 839 249 | US & CAN 437 245 6179 | sales@motushydraulics.com | motushydraulics.com

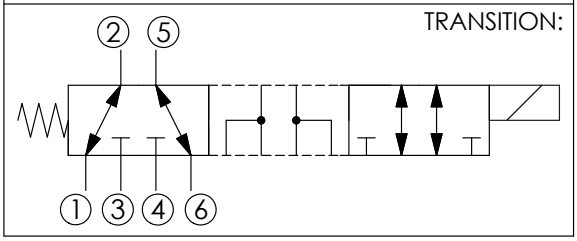
Solenoid Operated Valve

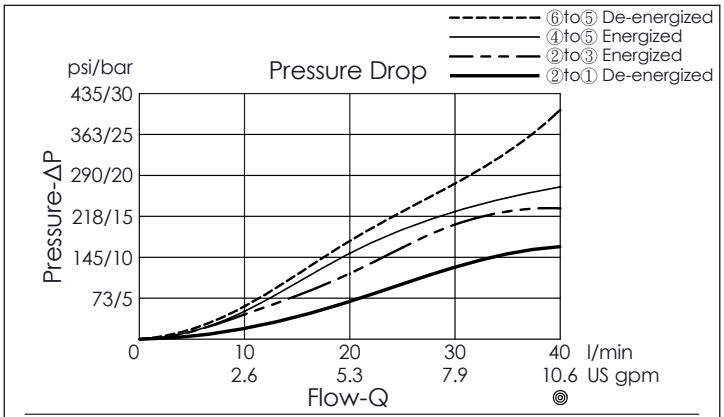
(Direct-Acting) (Spool, 6-Way, 2-Position)

Ordering Code: **ES-61A-X-Y-Z-04**









Operating Limits				
	②to①、⑥to⑤	①to②、⑤to⑥	②to③、④to⑤	③to②、⑤to④
	③、④ Blocked		①、⑥ Blocked	
350 bar (5000 psi)	8 l/min (2.2 US gpm)	8 l/min (2.2 US gpm)	17 l/min (4.5 US gpm)	7.5 l/min (2.0 US gpm)
280 bar (4000 psi)	11 l/min (3.0 US gpm)	9.5 l/min (2.5 US gpm)	19 l/min (5.0 US gpm)	9.5 l/min (2.5 US gpm)
210 bar (3000 psi)	13 l/min (3.4 US gpm)	13 l/min (3.4 US gpm)	24.5 l/min (6.5 US gpm)	13 l/min (3.5 US gpm)
140 bar (2000 psi)	15 l/min (4.0 US gpm)	18 l/min (4.8 US gpm)	34 l/min (9.0 US gpm)	17 l/min (4.5 US gpm)
70 bar (1000 psi)	20 l/min (5.4 US gpm)	32 l/min (8.5 US gpm)	38 l/min (10.0 US gpm)	24.5 l/min (6.5 US gpm)
	② ⑤ ① ③ ④ ⑥		② ⑤ ① ③ ④ ⑥	

The performance curve or data is only for reference, as customers' using condition, pressure, flow, hydraulic fluid viscosity, cleanliness, temperature and so on are different, the curve or data will be different.

Y	OPERATION
10	Spool, 6-Way, 2-Position, Ports ② and ① are connected, and Ports ⑥ and ⑤ are connected; When energized, Ports ② and ③ are connected, and Ports ④ and ⑤ are connected

TECHNICAL DATA

Max.Operating pressure: 350 bar (Refer To Performance Chart)	
Rated flow: 20 l/min (Refer To Performance Chart)	
Cavity-Tooling:	61A-6
Installation torque:	40 - 50 Nm
Weight:	0.383 (**Z**=N) kg
Response time depending on pressure and flow	40 - 60 ms

Hydraulic Fluid Viscosity、Cleanliness、Temperature Level:
Please refer Motus technical information.
(T.101.101.E HYDRAULIC FLUID (A)VISCOSITY)
(T.101.102.E HYDRAULIC FLUID (B)CLEANLINESS)
(T.101.103.E HYDRAULIC FLUID (C)TEMPERATURE)

Minimum Voltage Required:
90 % of nominal

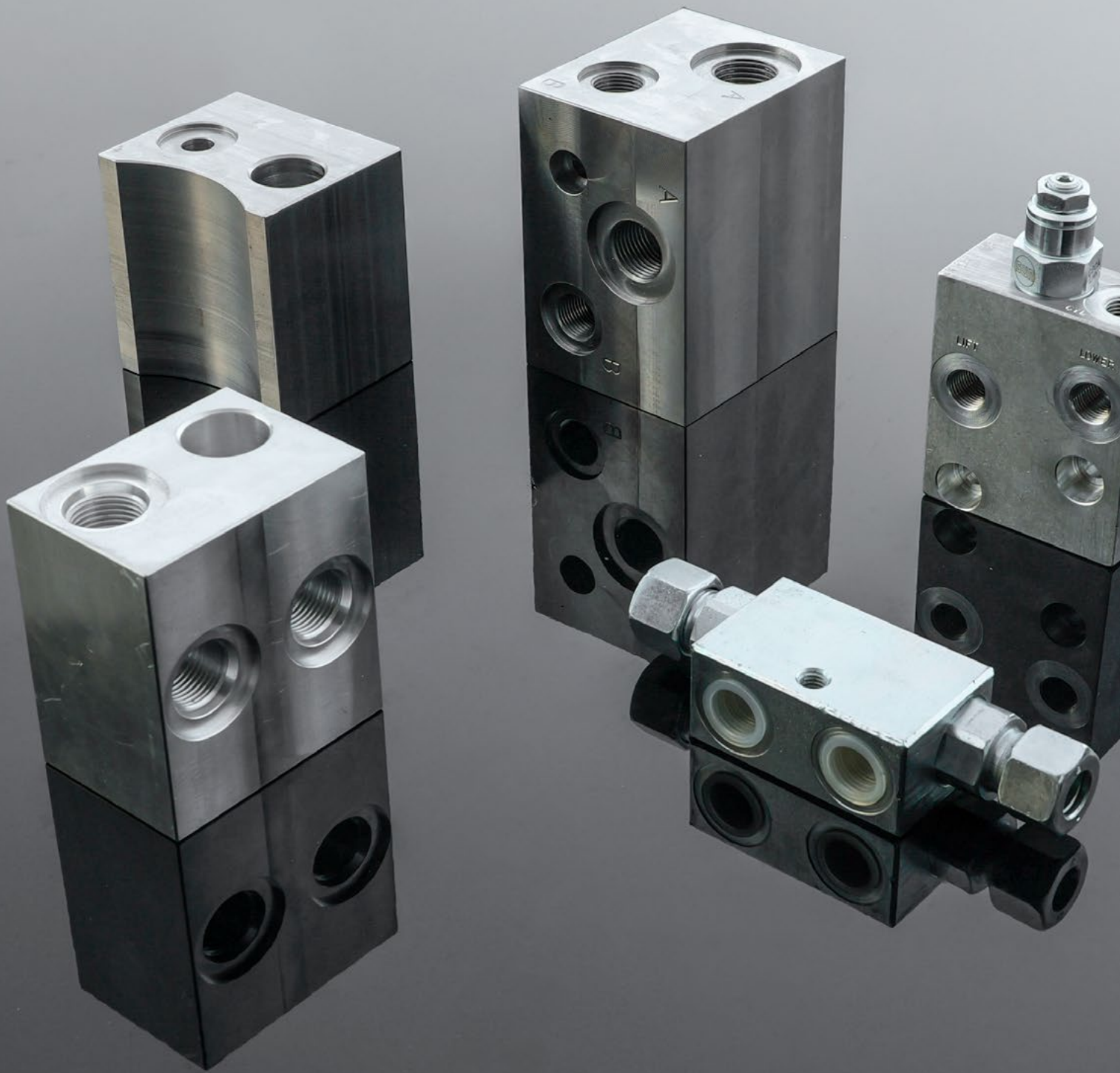
Coils must be ordered separately

Mounting Position: unrestricted

X	STRUCTURE
6D	6 Ports、22 Watt. Coil Ø19 mm tube

Z	OPTIONS	
N	Non-adjustable	
P	Push Style Manual Override	
R Standard Black	Manual Override Knob (Clockwise Operation, Return Automatically Once Released) Optional: Red (**RD**)	

10





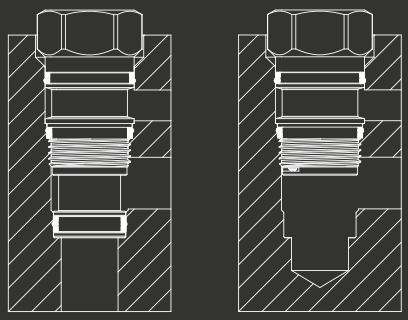
HYDRAULIC MANIFOLDS

Hydraulic manifolds are precision-machined blocks designed to house cartridge valves and manage fluid flow within hydraulic circuits. Our manifolds are custom designed and manufactured in-house, allowing systems to be tailored to specific application requirements.

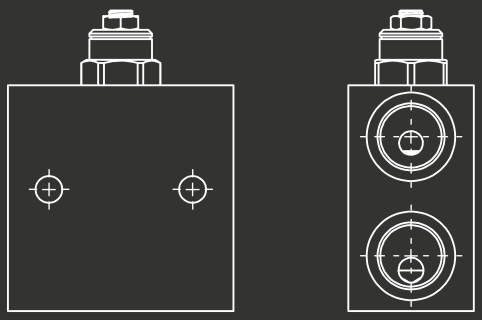
Each manifold is engineered, milled, and finished using high-quality materials to ensure accuracy, durability, and reliable sealing performance. By integrating multiple hydraulic functions into a single block, manifolds reduce hose connections, minimise leak points, and simplify installation in hydraulic power units, mobile equipment, and industrial systems.

HYDRAULIC MANIFOLDS

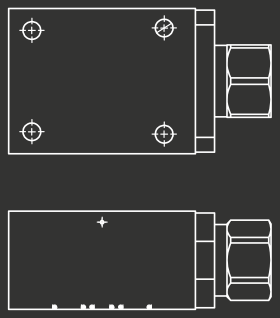
Cavity Plug
592



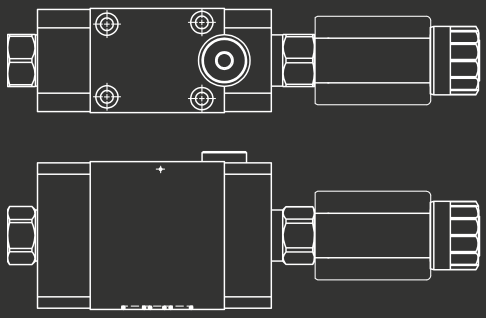
Line Mount Bodies
593–607



ISO 03 Sandwich Manifold
608–611



ISO 03 Cover Manifold
612–616



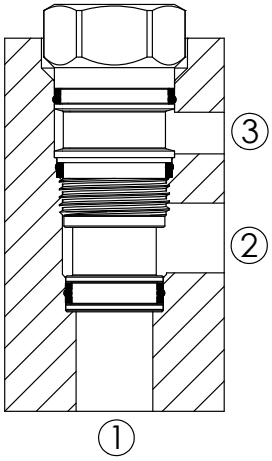
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Cavity Plug
(A-type cavities)

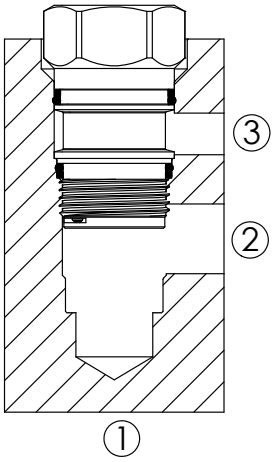
Ordering Code:	CP-X-Y-Z - ∗∗

∗∗ Mfg. Code

Example:CP-2A-3H-00



Example:CP-2A-3H-12



Illustrations / detail are for reference only. Data subject to change.

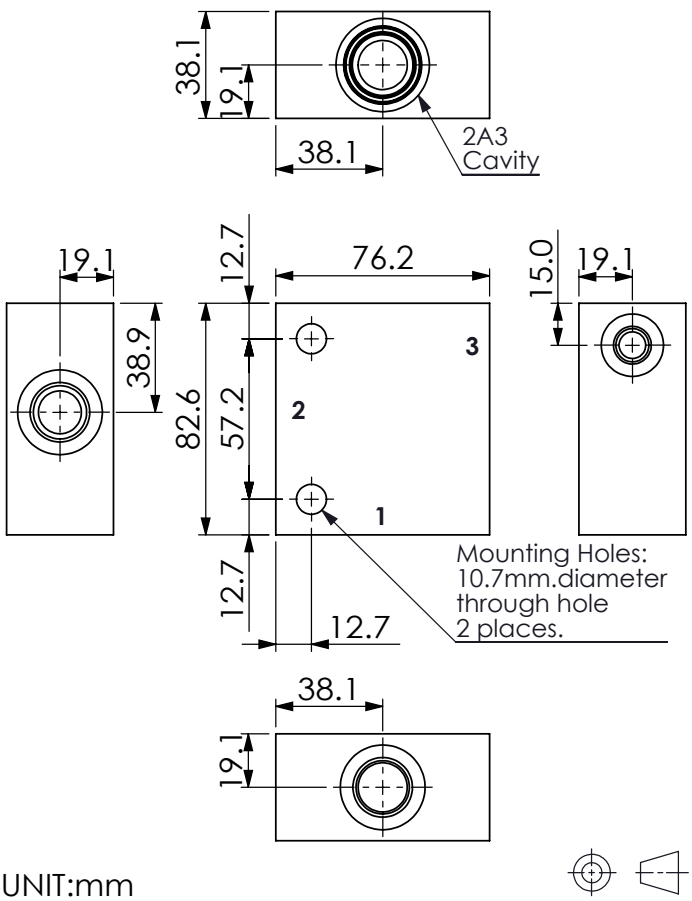
X	CAVITY-THREADS
163A	M16x1.5
11A	M20x1.5
2A	1.00"-14UNS-2B
17A	M36x2.0
19A	M48x2.0

Y	PORTS
3H	3 Holes

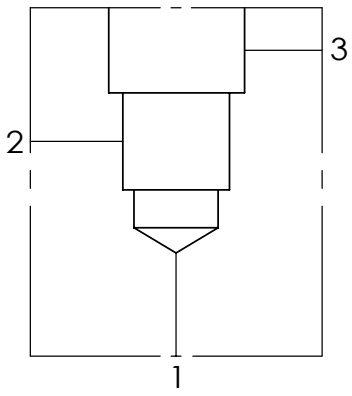
Z	OPERATIONS						
00	All Ports Blocked	163A	11A	2A	17A	19A	
12	Ports ① and ② Open Other Ports Blocked	163A	11A	2A	17A	19A	
13	Ports ① and ③ Open Other Ports Blocked	163A	11A	2A	17A	19A	
23	Ports ② and ③ Open Other Ports Blocked	163A	11A	2A	17A	19A	
123	Ports ①,② and ③ Open	163A	11A	2A	17A	19A	
1G02	PORT ① TO EXTERNAL PORT G 1/4"		11A				

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Ordering Code:	ML-2A3-X-Y 01-Z



UNIT:mm



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar

Cavity:

Refer to 2A3

* Refer to Motus Cartridge Valves Catalog.

Aluminum	0.53 kg(WITHOUT VALVES)
Steel	1.4 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.

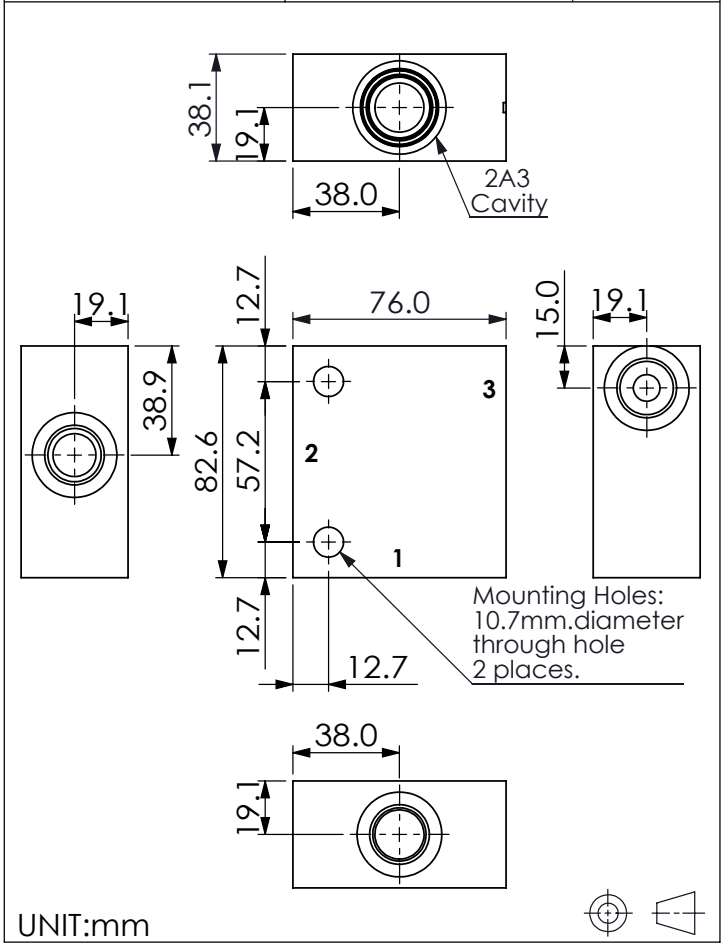
X	PORT SIZE		
	PORTS	PORT	
	1,2	3	
G03A	G 3/8"	G 1/4"	
G04A	G 1/2"	G 1/4"	
G06A	G 3/4"	G 1/4"	
S08A	SAE 8	SAE 6	
S10A	SAE 10	SAE 6	
S12A	SAE 12	SAE 6	

Y	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	
T	STEEL (black oxide)	

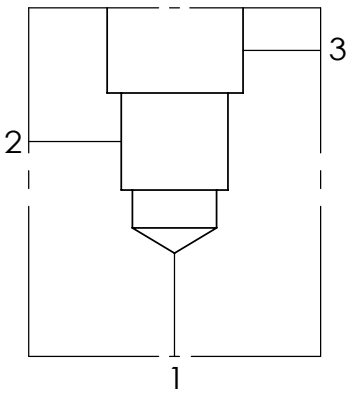
Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
RV0A	RV2A30AL (120LPM,7-210bar)
CB3H	CB2A33HL (3:1 , 7-280bar)
CO03	CO2A3003N (120LPM ,0.3bar)
SP0A	SP2A30AL (120LPM,7-210bar)

Please refer to the list price of cartridge program.

Ordering Code:	ML-2A3-X-Y 01-Z



UNIT:mm



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar

Cavity:

Refer to 2A3

* Refer to Motus Cartridge Valves Catalog.

Aluminum	0.53 kg(WITHOUT VALVES)
Steel	1.4 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.

Y	BODY MATERIAL	
C	HIGH-STRENGTH ALUMINUM (Clear anodize)	
A	HIGH-STRENGTH ALUMINUM	
T	STEEL (black oxide)	

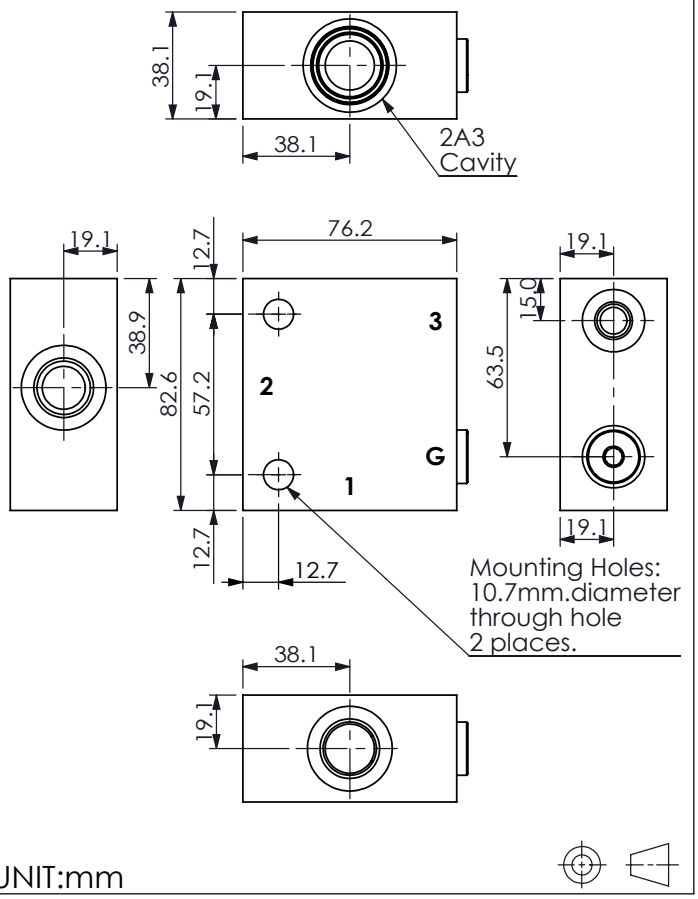
Standard option of Aluminum surface treatments is Clear Anodize. If other option is required (for example: black anodize), please contact sale dept.

X	PORT SIZE		
	PORTS	PORT	
	1,2	3	
A04	1/2"NPT	1/2"NPT	
G04	G 1/2"	G 1/2"	
G06B	G 3/4"	G 1/2"	
P03	3/8"PT	3/8"PT	
P04	1/2"PT	1/2"PT	
S12B	SAE 12	SAE 10	

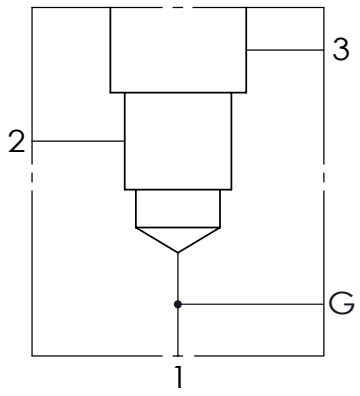
Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
PP0A	PP2A30AL (80LPM,7-210bar)
PD0A	PD2A30AL (80LPM,50-210bar)

Please refer to the list price of cartridge program.

Ordering Code:	ML-2A3-X-Y 02-Z



UNIT:mm



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar

Cavity:

Refer to 2A3

* Refer to Motus Cartridge Valves Catalog.

Aluminum	0.53 kg(WITHOUT VALVES)
Steel	1.4 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.

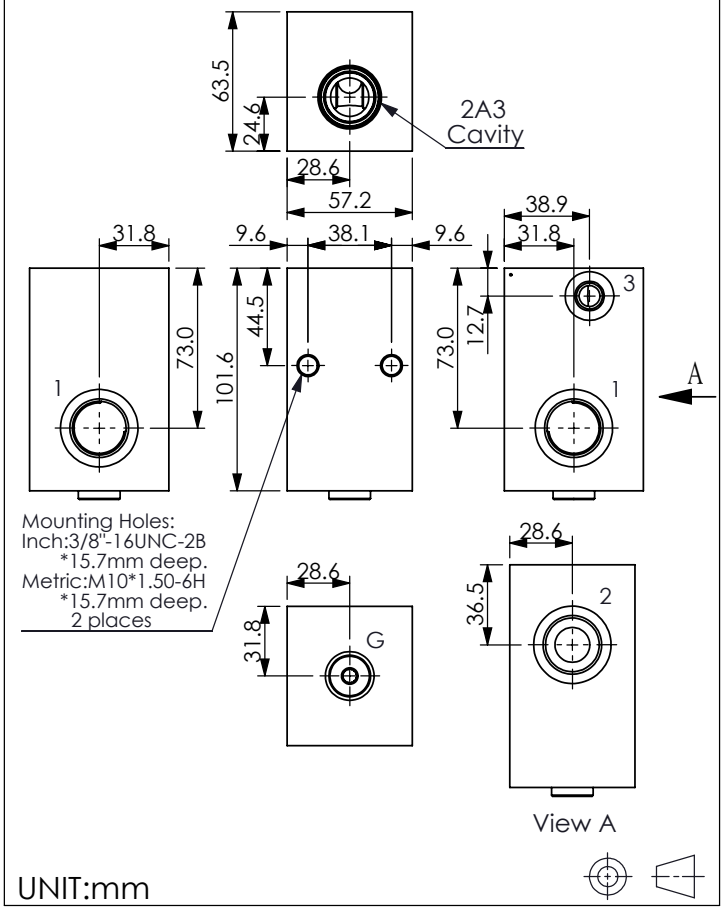
X	PORT SIZE			
	PORTS 1,2	PORT 3	PORT G	
G04AG	G 1/2"	G 1/4"	G 1/4"	
G06AG	G 3/4"	G 1/4"	G 1/4"	

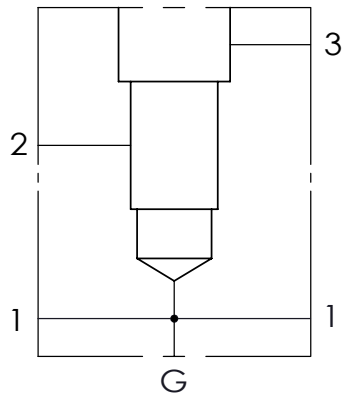
Y	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	
T	STEEL (black oxide)	

Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
RV0A	RV2A30AL (120LPM,7-210bar)
CB3H	CB2A33HL (3:1 , 7-280bar)
CO03	CO2A3003N (120LPM ,0.3bar)
SP0A	SP2A30AL (120LPM,7-210bar)

Please refer to the list price of cartridge program.

Ordering Code: **ML-2A3-X-Y 03-Z**





TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar

Cavity:

Refer to 2A3

* Refer to **Motus** Cartridge Valve Catalog.

Aluminum	0.81 kg(WITHOUT VALVES)
Steel	2.32 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.

X	PORT SIZE			
	PORTS 1,2	PORT 3	PORT G	
G06AG	G 3/4"	G 1/4"	G 1/4"	

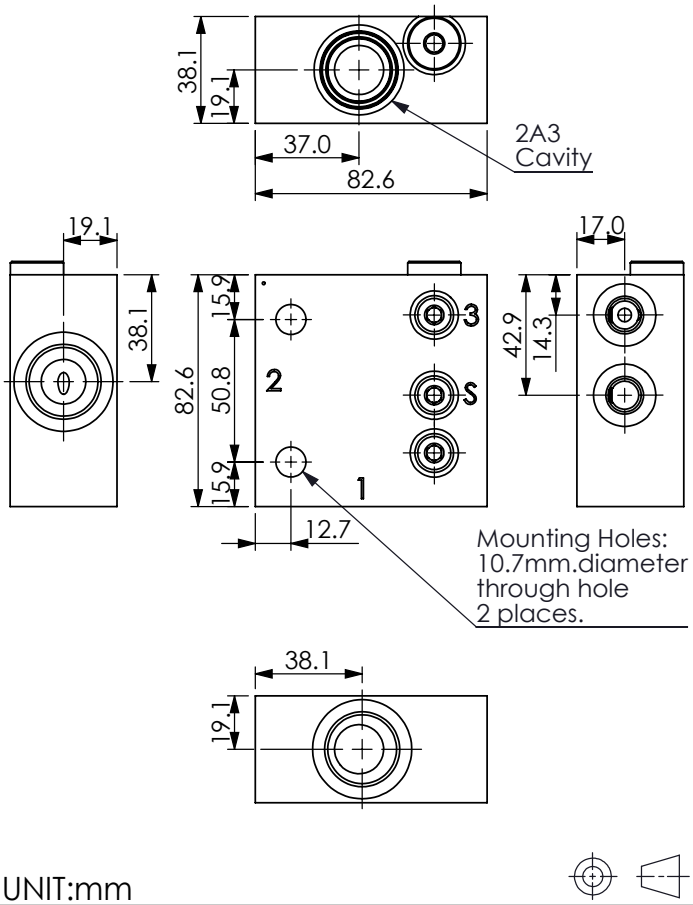
Y	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	
T	STEEL (black oxide)	

Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
RV0A	RV2A30AL (120LPM,7-210bar)
CB3H	CB2A33HL (3:1 , 7-280bar)
CO03	CO2A3003N (120LPM ,0.3bar)
SP0A	SP2A30AL (120LPM,7-210bar)

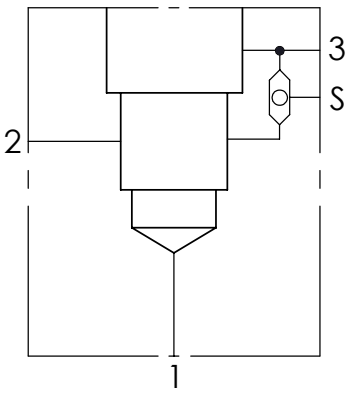
Please refer to the list price of cartridge program.

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Ordering Code:	ML-2A3-X-Y 32-Z



UNIT:mm



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar

Cavity:

Refer to 2A3

* Refer to **Motus** Cartridge Valves Catalog.

Aluminum	0.55 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.

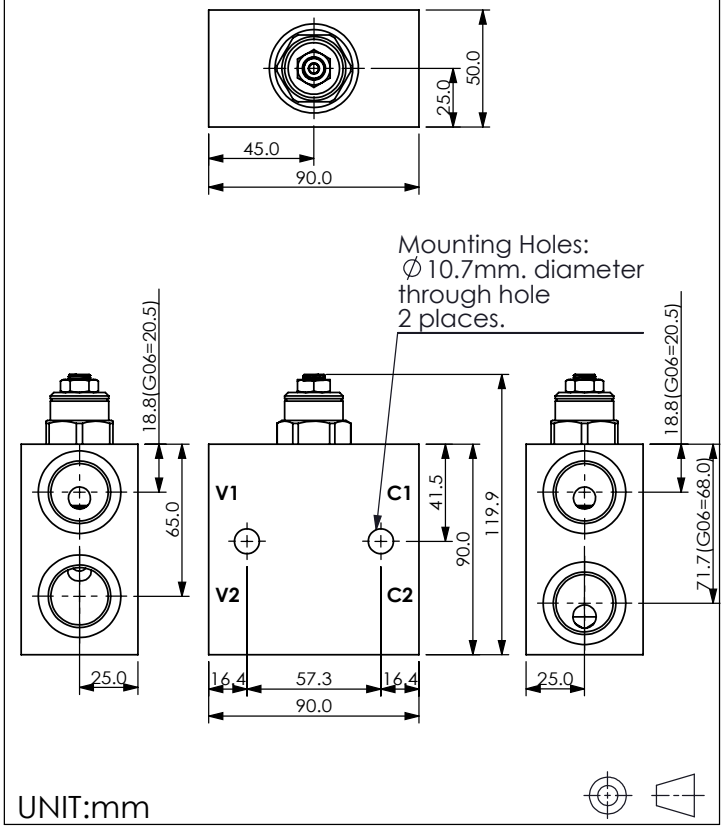
X	PORT SIZE			
	PORTS 1,2	PORT 3	PORT S	
G06A	G 3/4"	G 1/4"	G 1/4"	

Y	BODY MATERIAL	
AS	HIGH-STRENGTH ALUMINUM	

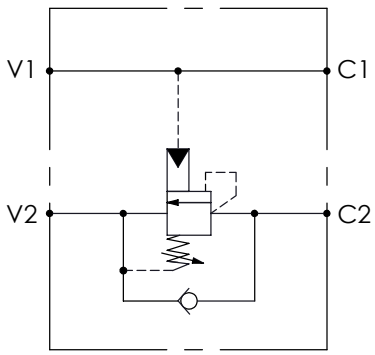
Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
RV0A	RV2A30AL (120LPM,7-210bar)
CB3H	CB2A33HL (3:1 , 7-280bar)
CO03	CO2A3003N (120LPM ,0.3bar)
SP0A	SP2A30AL (120LPM,7-210bar)

Please refer to the list price of cartridge program.

Ordering Code:	ML-2A3-X-Y 02-Z
Stack Height : 50.0mm	



UNIT:mm



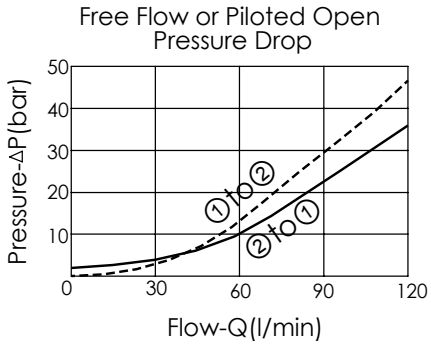
TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar
Rated flow:	120 l/min

Cartridge Valve:
Refer to CB2A-X-Y-Z
* Refer to **Motus** Cartridge Valves Catalog.

Aluminum	0.83 kg(WITHOUT VALVES) 1.23 kg(INCLUDE VALVES)
Steel	2.31 kg(WITHOUT VALVES) 2.71 kg(INCLUDE VALVES)

* If you need the special specification. Please contact us.



X	PORT SIZE		
	PORTS V1,V2	PORTS C1,C2	
G04	G 1/2"	G 1/2"	
G06	G 3/4"	G 3/4"	
S10	SAE 10	SAE 10	

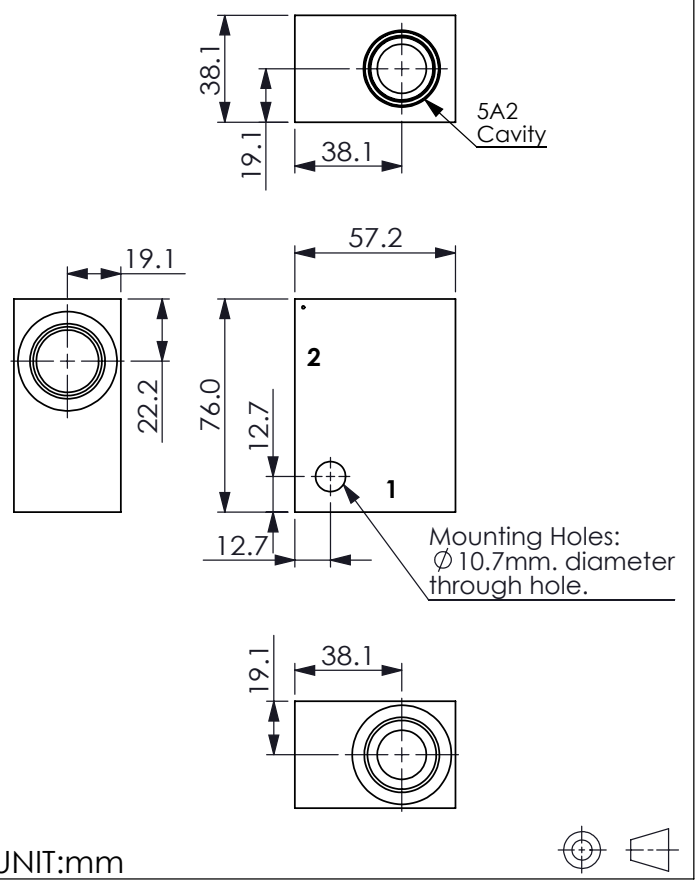
Y	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	
T	STEEL (black oxide)	

Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
CB3H	CB2A33HL (3:1 , 7-280bar)
CB4J	CB2A34JL (4.5:1 , 350bar)
CB0J	CB2A30JL (10:1 , 350bar)

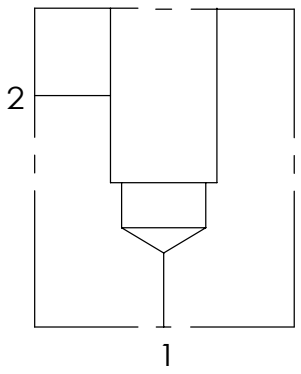
Please refer to the list price of cartridge program.

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Ordering Code:	ML-5A2-X-Y 01-Z



UNIT:mm



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar

Cavity:

Refer to 5A2

* Refer to Motus Cartridge Valves Catalog.

Aluminum	0.31 kg(WITHOUT VALVES)
Steel	0.92 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.

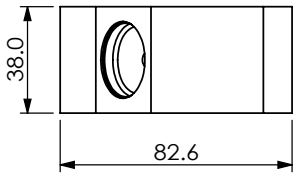
X	PORT SIZE		
	PORT 1	PORT 2	
G06	G3/4"	G3/4"	
S12	SAE 12	SAE 12	

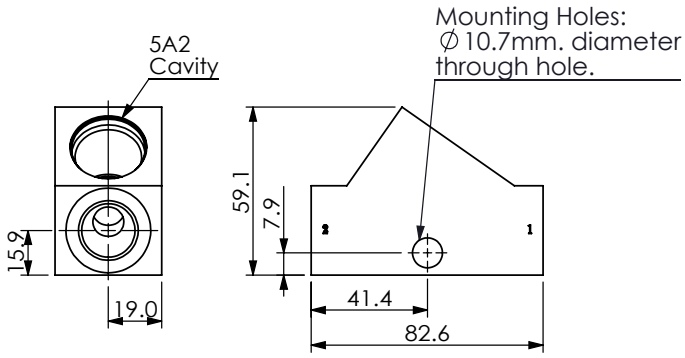
Y	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	
T	STEEL (black oxide)	

Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
CV2003	CV5A2003N(160LPM,0.3bar)
FR0A	FR5A20AL(45LPM,350bar)
NV33	NV5A2033L(350bar)

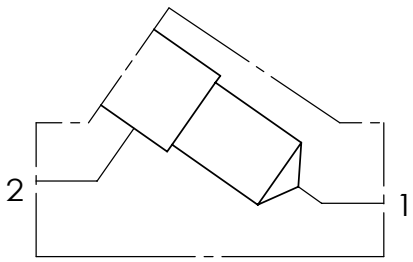
Please refer to the list price of cartridge program.

Ordering Code:	ML-5A2-X-Y 41-Z





UNIT:mm



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Ductile Iron Body Pressure Rating:	350 bar

Cavity:

Refer to 5A2

* Refer to Motus Cartridge Valves Catalog.

Aluminum	0.25 kg(WITHOUT VALVES)
Ductile Iron	0.69 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.

X	PORT SIZE		
	PORT 1	PORT 2	
G04	G 1/2"	G 1/2"	
S10	SAE 10	SAE 10	

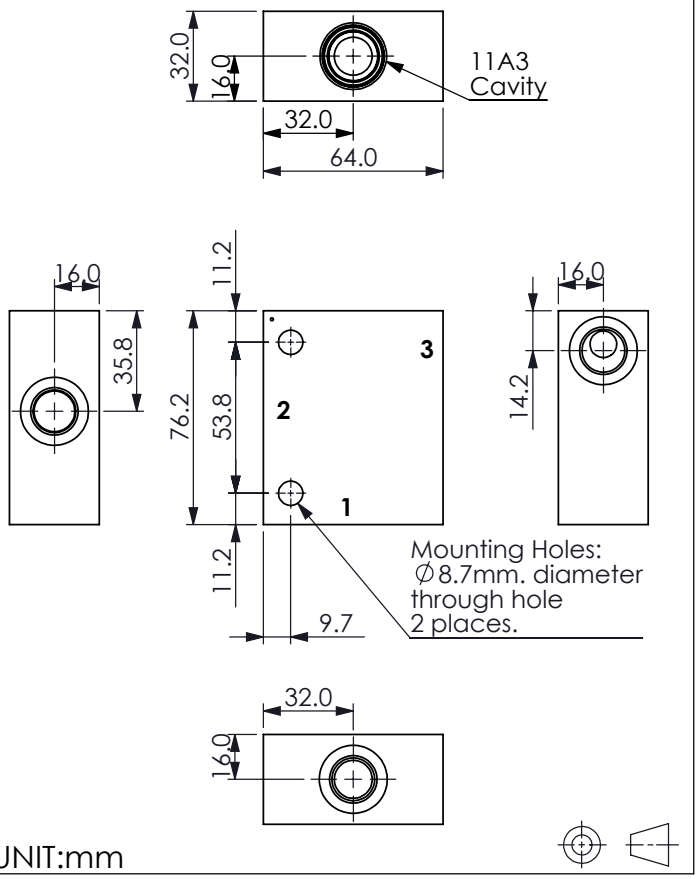
Y	BODY MATERIAL	
A	**HIGH-STRENGTH ALUMINUM**	
S	**DUCTILE IRON**	

Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
CV2003	CV5A2003N(160LPM,0.3bar)
FR0A	FR5A20AL(45LPM,350bar)
NV33	NV5A2033L(350bar)

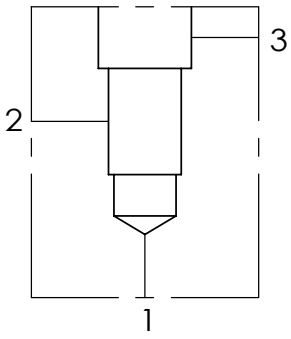
Please refer to the list price of cartridge program.

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Ordering Code: **ML-11A3-X-Y 01-Z**



UNIT:mm



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar

Cavity:

Refer to 11A3

* Refer to **Motus** Cartridge Valves Catalog.

Aluminum	0.35 kg(WITHOUT VALVES)
Steel	0.95 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.

X	PORT SIZE		
	PORTS	PORT	
	1,2	3	
G03	G 3/8"	G 3/8"	
G04B	G 1/2"	G 3/8"	
P03	3/8"PT	3/8"PT	
S08	SAE 8	SAE 8	

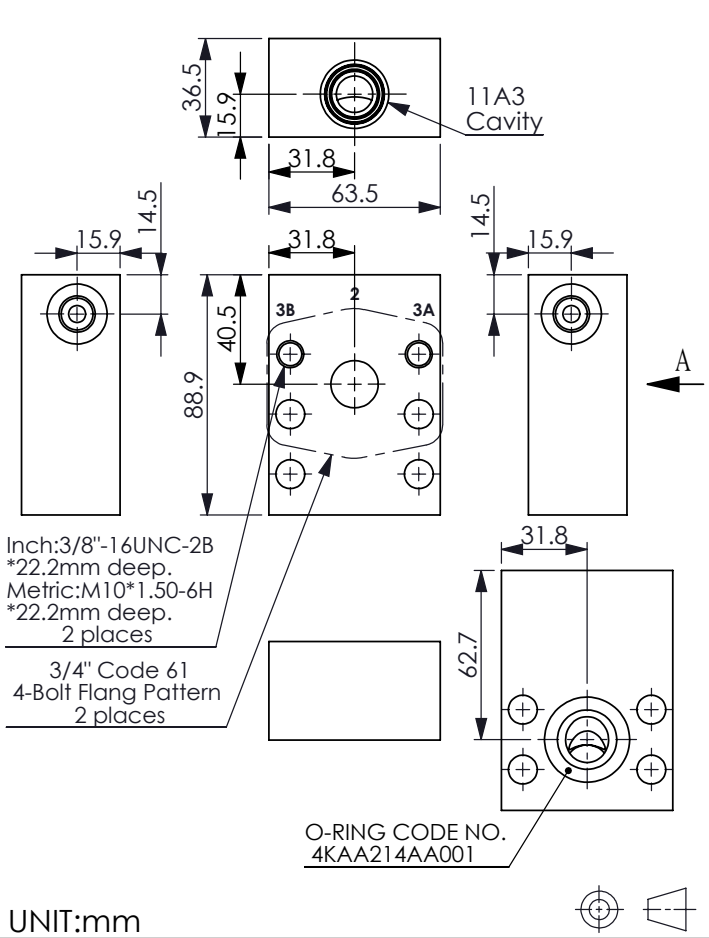
Y	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	
T	STEEL (black oxide)	

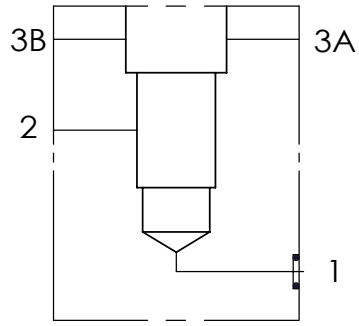
If there are requirements for other materials or surface treatments, please contact the **Motus** sales department.

Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
PP0A	PP11A30AL (40LPM,7-210bar)
PD0A	PD11A30AL (40LPM,35-210bar)

Please refer to the list price of cartridge program.

Ordering Code: **ML-11A3-X-Y 07-Z**





TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar

Cavity:

Refer to 11A3

* Refer to Motus Cartridge Valve Catalog.

Aluminum	0.42 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.

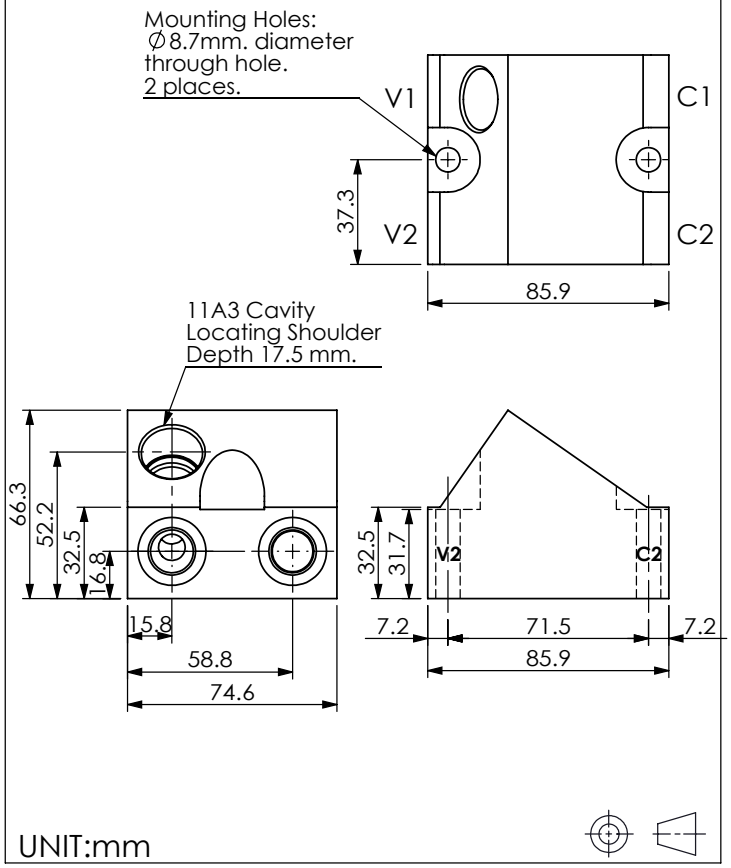
X	PORT SIZE				
	PORTS	PORT	MOUNTING DIMENSIONS		
	1,2	3			
F61M06A	3/4" Code 61(5000 psi) 4-Bolt Flange Pattern	G 1/4"	**Metric**	M10 x 1.5-6H	
F61E06A	3/4" Code 61(5000 psi) 4-Bolt Flange Pattern	SAE 6	**Inch**	3/8"-16 UNC-2B	

Y	BODY MATERIAL	
A	**HIGH-STRENGTH ALUMINUM**	

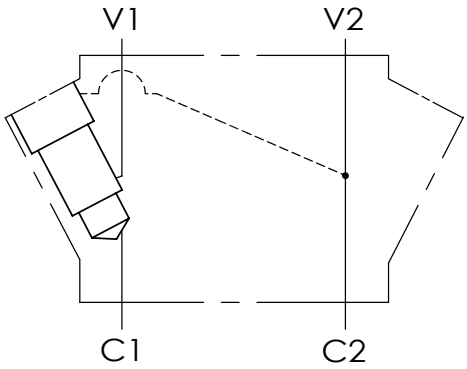
Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
RV0A	RV11A30AL(60LPM,7-210bar)
CB3H	CB11A33HL (60LPM,70-280bar)
CO20	CO11A3020N (60LPM,2.0bar)
CC20	CC11A3020N (60LPM,2.0bar)
SP0A	SP11A30AL (60LPM,7-210bar)

Please refer to the list price of cartridge program.

Ordering Code: **ML-11A3-X-Y 41-Z**



UNIT:mm



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Ductile Iron Body Pressure Rating:	350 bar

Cavity:

Refer to 11A3

* Refer to **Motus** Cartridge Valves Catalog.

Aluminum	0.68 kg(WITHOUT VALVES)
Ductile Iron	1.96 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.

X	PORT SIZE		
	PORTS V1,V2	PORTS C1,C2	
G03	G 3/8"	G 3/8"	
G04	G 1/2"	G 1/2"	
S08	SAE 8	SAE 8	

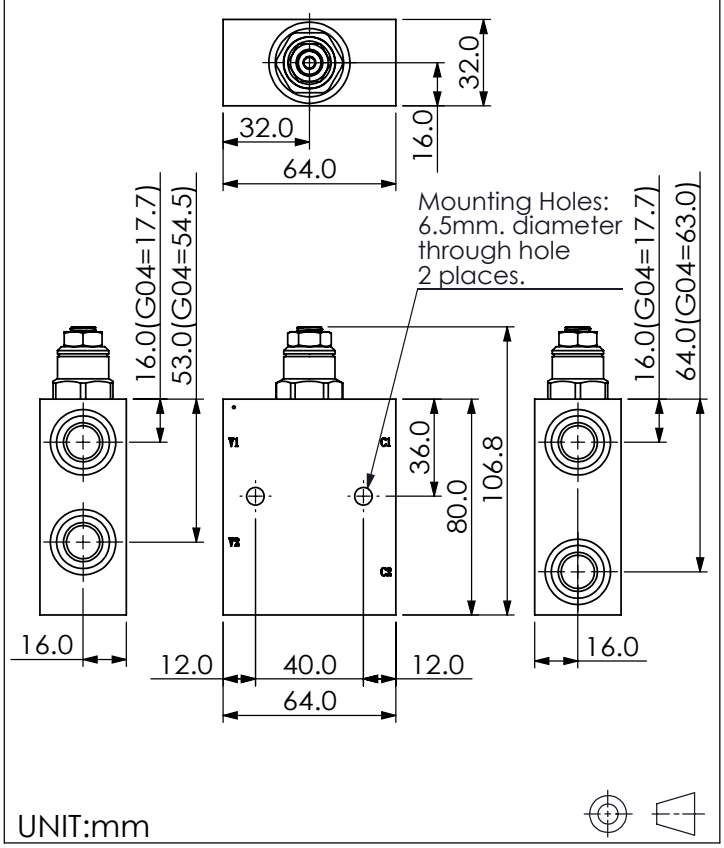
Y	BODY MATERIAL	
A	**HIGH-STRENGTH ALUMINUM**	
S	**DUCTILE IRON**	

Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
CB3H	CB11A33HL (3:1,70-280bar)
CO03	CO11A3003N (60LPM,0.3bar)

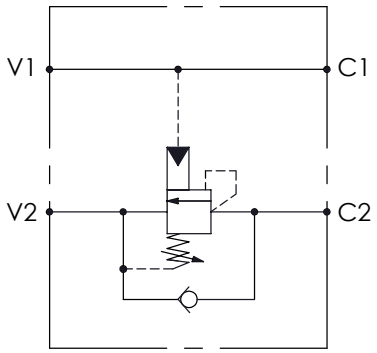
Please refer to the list price of cartridge program.

Ordering Code: **ML-11A3-X-Y 02-Z**

Stack Height : 32.0mm



UNIT:mm



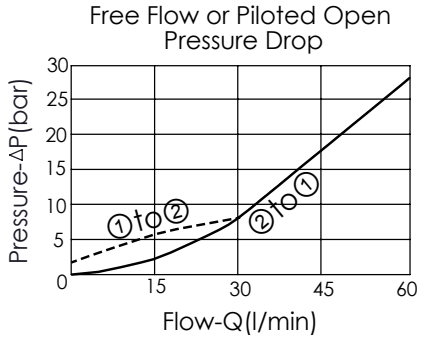
TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar
Rated flow:	60 l/min

Cartridge Valve:
Refer to CB11A-X-Y-Z
* Refer to **Motus** Cartridge Valves Catalog.

Aluminum	0.35 kg(WITHOUT VALVES) 0.55 kg(INCLUDE VALVES)
Steel	1.0 kg(WITHOUT VALVES) 1.2 kg(INCLUDE VALVES)

* If you need the special specification.
Please contact us.



Y	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	
T	STEEL (black oxide)	

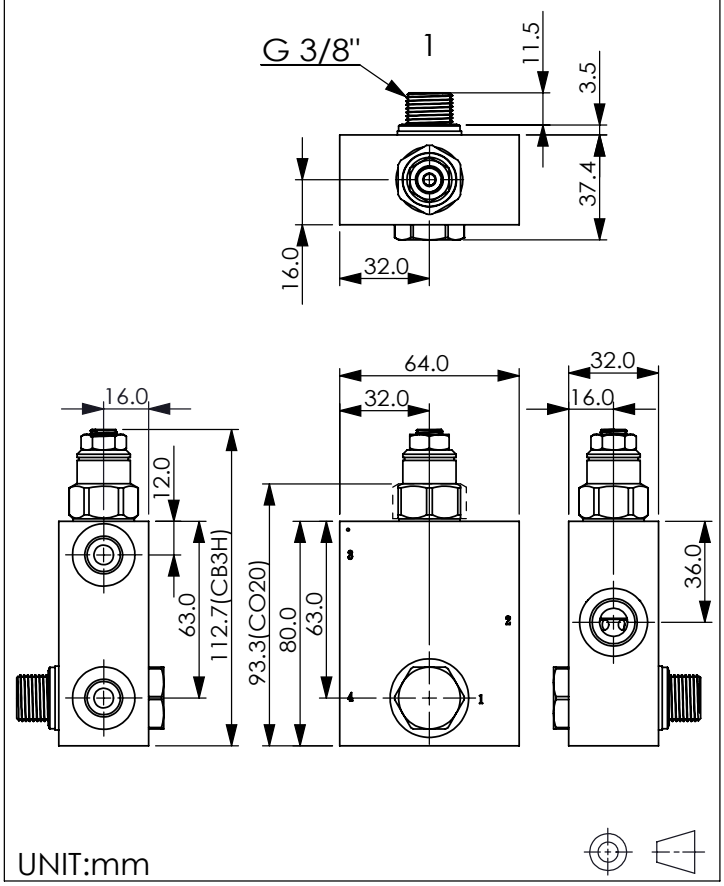
X	PORT SIZE		
	PORTS V1,V2	PORTS C1,C2	
G02	G 1/4"	G 1/4"	
G03	G 3/8"	G 3/8"	
G04	G 1/2"	G 1/2"	
S06	SAE 6	SAE 6	

Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
CB3H	CB11A33HL (3:1,70-280bar)
CB4J	CB11A34JL (4.5:1 , 350bar)
CB0J	CB11A30JL (10:1 , 350bar)

Please refer to the list price of cartridge program.

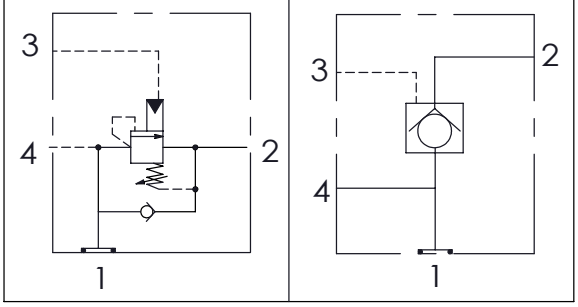
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Ordering Code:	ML-11A3-X-Y 05-Z



UNIT:mm

Ordering Code:	
ML-11A3-G03A-A05-CB3H	ML-11A3-G03A-A05-CO20



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar

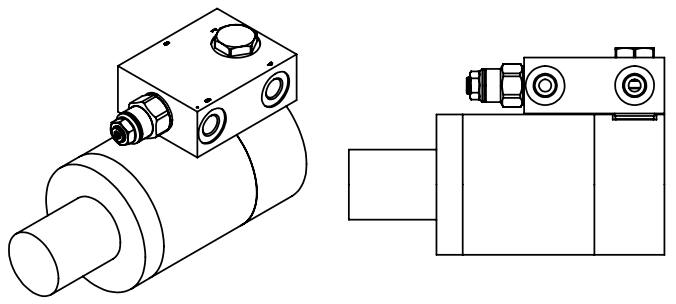
Cavity:

Refer to 11A3

* Refer to Motus Cartridge Valves Catalog.

Aluminum	0.45 kg(WITHOUT VALVES)
Steel	1.04 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.



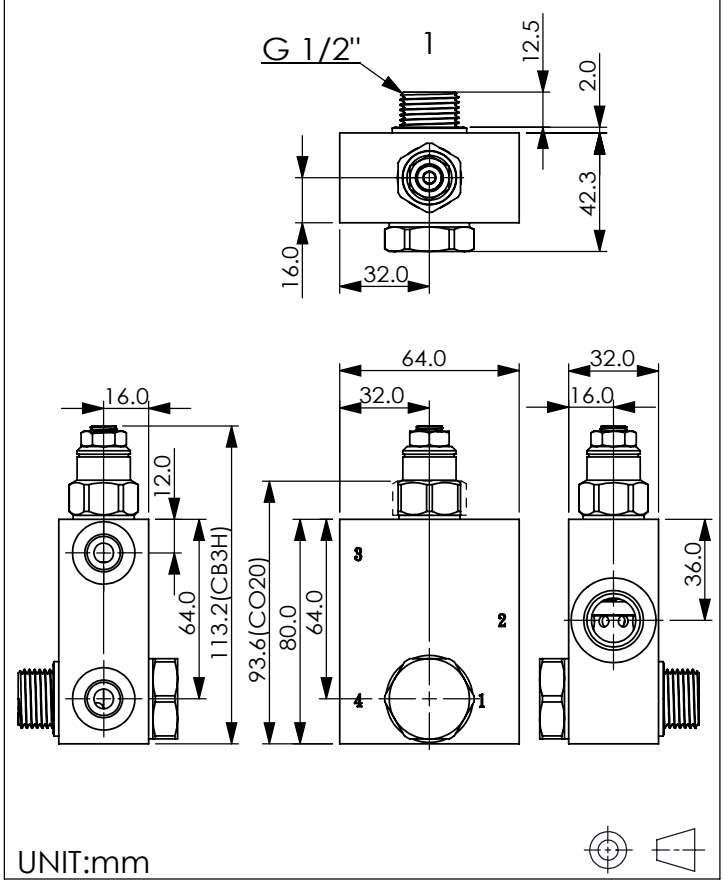
X	PORT SIZE		
	PORTS 1,2	PORTS 3,4	
G03A	G 3/8"	G 1/4"	

Y	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	
T	STEEL (black oxide)	

Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
CB3H	CB11A33HL (3:1,70-280bar)
CO20	CO11A3020N (60LPM,2.0bar)

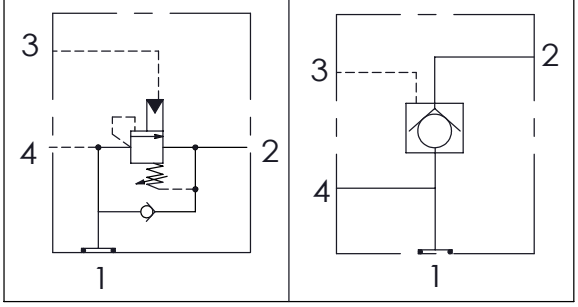
Please refer to the list price of cartridge program.

Ordering Code:	ML-11A3-X-Y 05-Z



UNIT:mm

Ordering Code:	
ML-11A3-G04A-A05-CB3H	ML-11A3-G04A-A05-CO20



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar

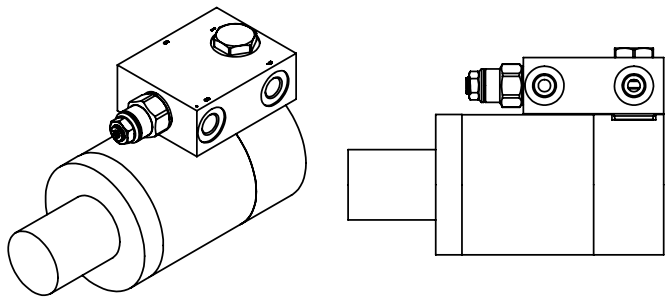
Cavity:

Refer to 11A3

* Refer to Motus Cartridge Valves Catalog.

Aluminum	0.5 kg(WITHOUT VALVES)
Steel	1.1 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.



X	PORT SIZE		
	PORTS 1,2	PORTS 3,4	
G04A	G 1/2"	G 1/4"	

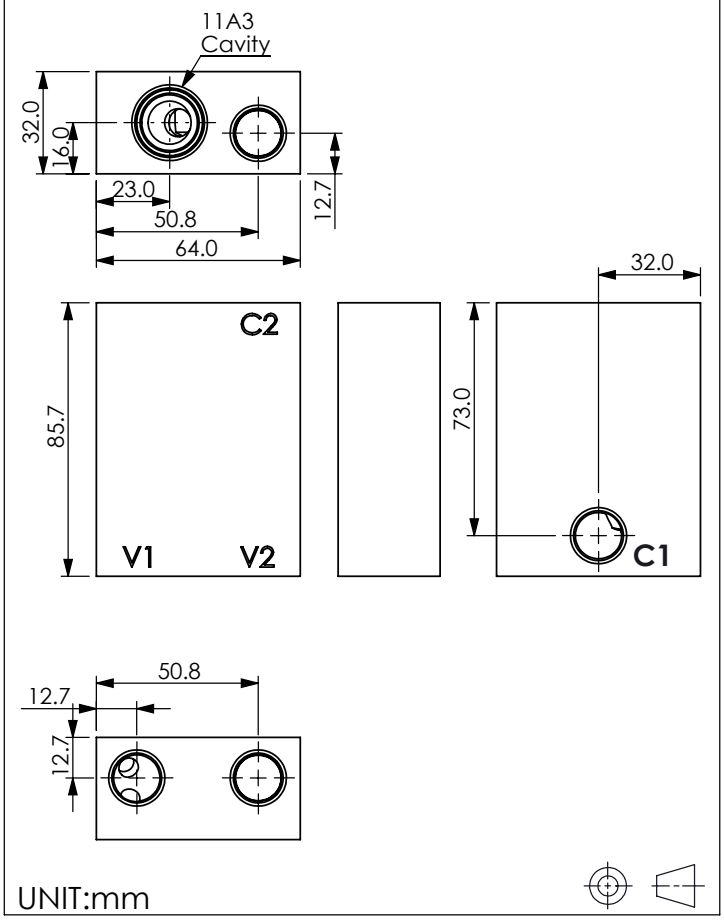
Y	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	
T	STEEL (black oxide)	

Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
CB3H	CB11A33HL (3:1,70-280bar)
CO20	CO11A3020N (60LPM,2.0bar)

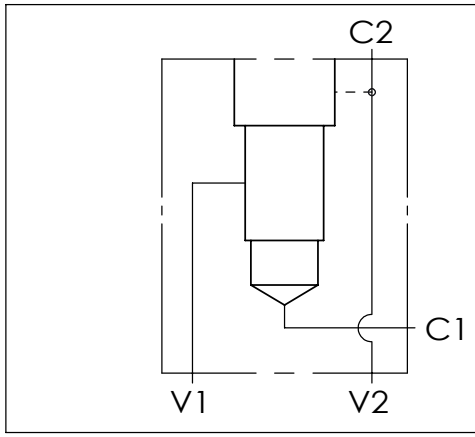
Please refer to the list price of cartridge program.

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Ordering Code:	ML-11A3-X-Y 06-Z



UNIT:mm



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Steel Body Pressure Rating:	350 bar

Cavity:

Refer to 11A3

* Refer to Motus Cartridge Valves Catalog.

Aluminum	0.36 kg(WITHOUT VALVES)

* If you need the special specification. Please contact us.

X	PORT SIZE		
	PORT	PORTS	
	C1	C2,V1,V2	
A03	3/8"NPT	3/8"NPT	

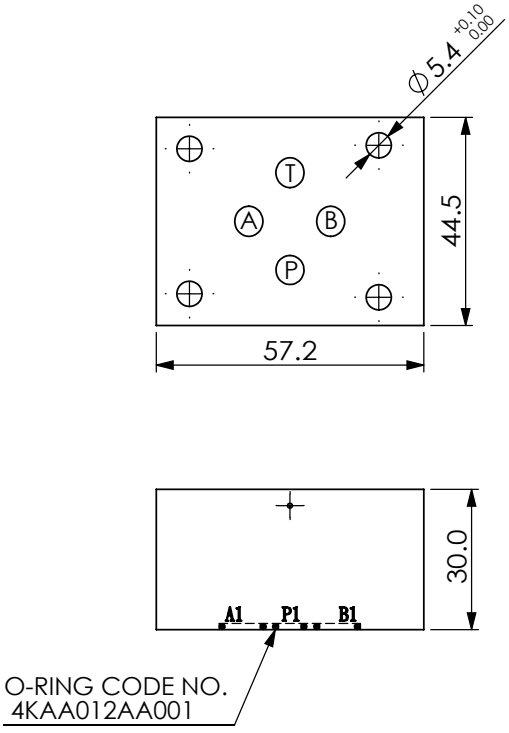
Y	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	

Z	CARTRIDGE VALVES SELECTION
	WITHOUT VALVE
CB3H	CB11A33HL (3:1,70-280bar)
CO03	CO11A3003N (60LPM,0.3bar)

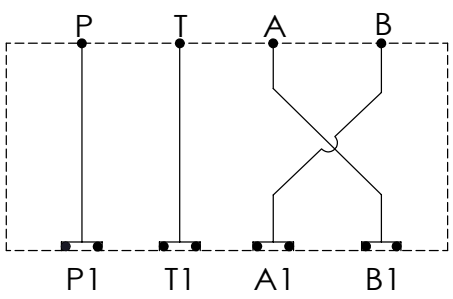
Please refer to the list price of cartridge program.

Ordering Code: **MH03ACD-X-Y-Z 04**

Stack Height : 30.0mm



UNIT:mm



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Ductile Iron Body Pressure Rating:	350 bar
Rated flow:	40 l/min

Aluminum	0.18 kg(WITHOUT VALVE)
Ductile Iron	0.53 kg(WITHOUT VALVE)

* If you need the special specification. Please contact us.

X	SELECTION FOR A PORT CONTROL
N	WITHOUT PORT

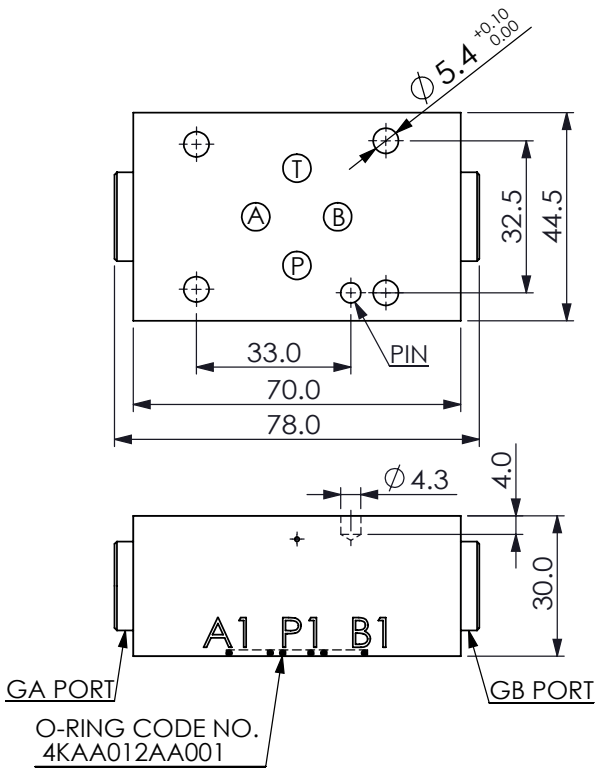
Y	SELECTION FOR B PORT CONTROL
N	WITHOUT PORT

Z	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	
S	DUCTILE IRON	

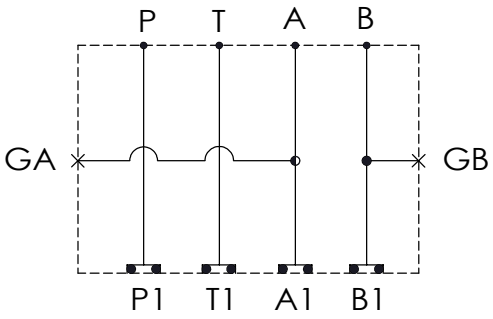
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Ordering Code: **MH03AGC-X-Y-Z 04**

Stack Height : 30.0mm



UNIT:mm



TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Ductile Iron Body Pressure Rating:	350 bar
Rated flow:	40 l/min

Aluminum	0.26 kg(WITHOUT VALVE)
Ductile Iron	0.68 kg(WITHOUT VALVE)

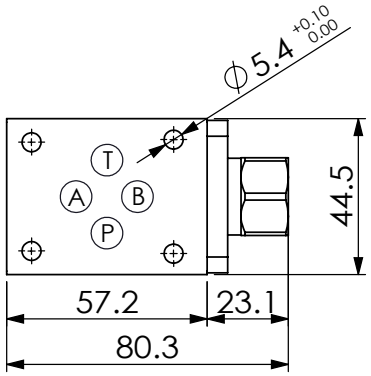
* If you need the special specification. Please contact us.

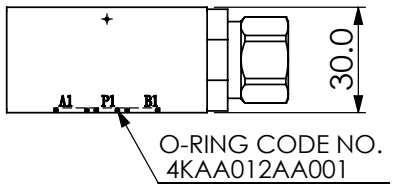
X	SELECTION FOR G PORT	
G02	G 1/4"(Metric)	

Y	SELECTION FOR G PORT	
G02	G 1/4"(Metric)	

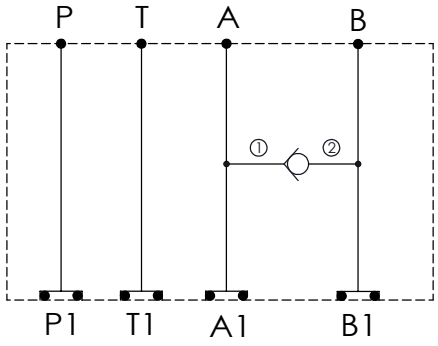
Z	BODY MATERIAL	
A	**HIGH-STRENGTH ALUMINUM**	
S	**DUCTILE IRON**	

Ordering Code:	MH03BBB-X-Y-Z04
Stack Height : 30.0mm	





UNIT:mm



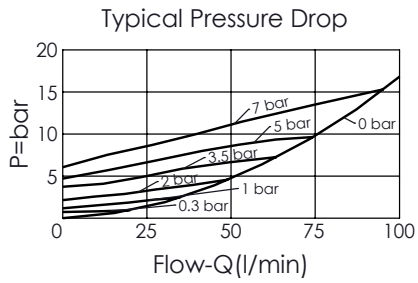
TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Ductile Iron Body Pressure Rating:	350 bar
Rated flow:	40 l/min

Cartridge Valve:
Refer to CV13A-X-Y-Z
* Refer to **Motus** Cartridge Valves Catalog.

Aluminum	0.18 kg(WITHOUT VALVE) 0.28 kg(INCLUDE VALVE)
Ductile Iron	0.52 kg(WITHOUT VALVE) 0.62 kg(INCLUDE VALVE)

* If you need the special specification. Please contact us.



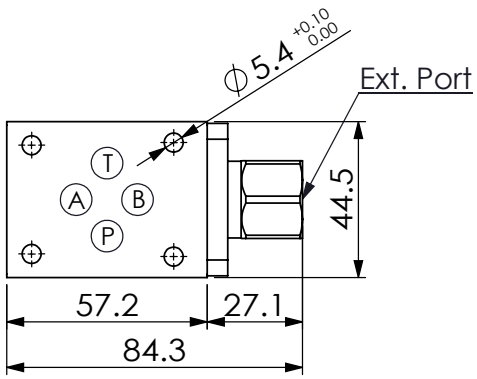
X	SELECTION FOR A PORT CONTROL
N	WITHOUT PORT

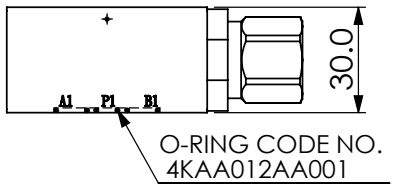
Y	SELECTION FOR B PORT CONTROL
13A2	CAVITY ONLY(WITHOUT VALVE)
CV2020	CV13A2020N (80LPM , 2.0bar)
Please refer to the list price of cartridge program.	

Z	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	
S	DUCTILE IRON	

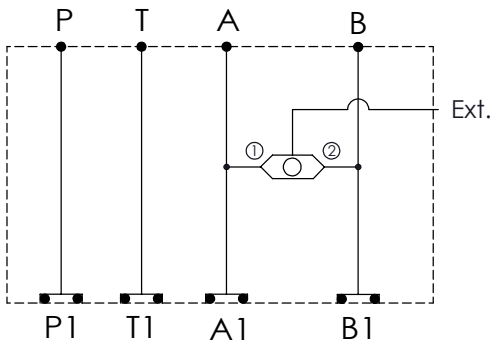
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Ordering Code:	MH03BBB-X-Y-Z04
Stack Height : 30.0mm	





UNIT:mm



TECHNICAL DATA

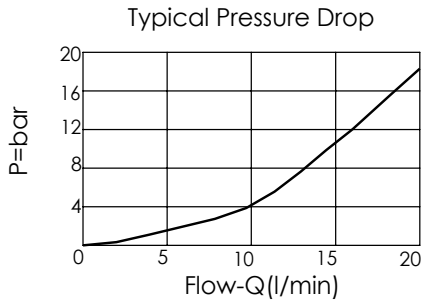
Aluminum Body Pressure Rating:	210 bar
Ductile Iron Body Pressure Rating:	350 bar
Rated flow:	40 l/min

Cartridge Valve:
Refer to LS13A-X-Y-Z
* Refer to **Motus** Cartridge Valves Catalog.

Aluminum	0.18 kg(WITHOUT VALVE) 0.28 kg(INCLUDE VALVE)
Ductile Iron	0.52 kg(WITHOUT VALVE) 0.62 kg(INCLUDE VALVE)

* If you need the special specification. Please contact us.

Typical Pressure Drop



X	SELECTION FOR A PORT CONTROL
N	WITHOUT PORT

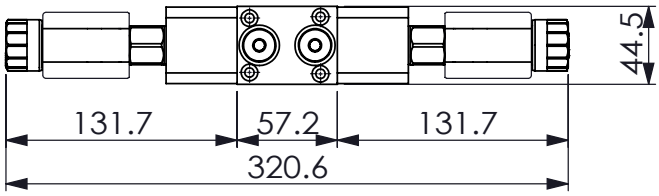
Y	SELECTION FOR B PORT CONTROL
13A2	CAVITY ONLY(WITHOUT VALVE)
LS0NG02	LS13A20NG02 (External G1/4" Port)
Please refer to the list price of cartridge program.	

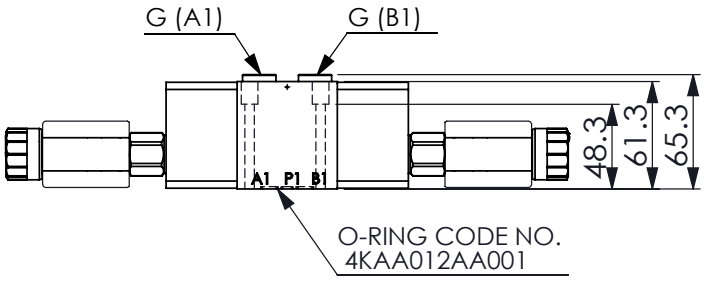
Z	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	
S	DUCTILE IRON	

ISO 03 Cover Manifold

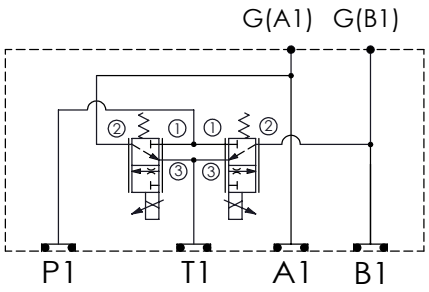
Ordering Code:	MK03DDN-X-Y-Z-A03
	MK03DDN-X-Y-Z-S03

Stack Height : 61.3mm

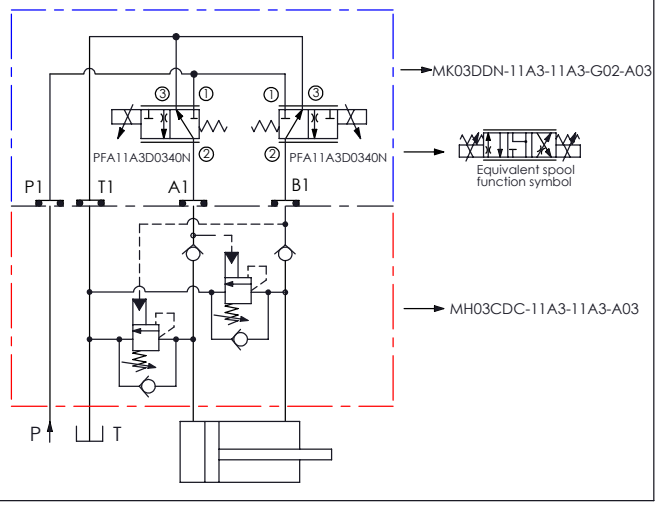




UNIT:mm



TYPICAL CIRCUIT:



TECHNICAL DATA

Aluminum (A03) Body Pressure Rating:	210 bar
Ductile Iron(S03) Body Pressure Rating:	350 bar
Rated flow:	34 l/min

Cartridge Valve:
Refer to PFA11A-X-Y-Z

* Refer to Motus Cartridge Valves Catalog.

Aluminum	0.85 kg(WITHOUT VALVES) 1.6 kg(INCLUDE VALVES ,WITHOUT COIL)
Ductile Iron	2.5 kg(WITHOUT VALVES) 3.25 kg(INCLUDE VALVES ,WITHOUT COIL)

* If you need the special specification. Please contact us.

Y	SELECTION FOR B PORT CONTROL (REFER TO PFA11A-X-Y-Z)
11A3	CAVITY ONLY(WITHOUT VALVE)
PFA34	PFA11A3D0340N(0.4~34LPM)

COIL MUST BE ORDERED SEPARATELY (REFER TO EC-19A-X-Y-Z)

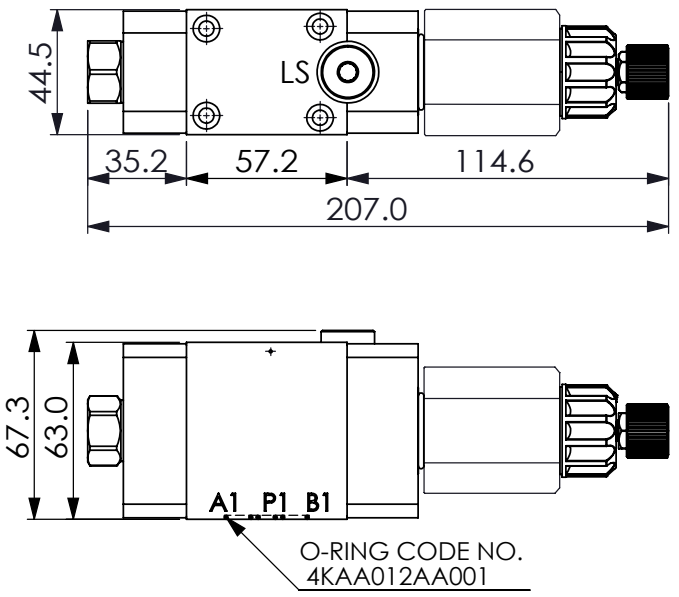
X	SELECTION FOR A PORT CONTROL (REFER TO PFA11A-X-Y-Z)
11A3	CAVITY ONLY(WITHOUT VALVE)
PFA34	PFA11A3D0340N(0.4~34LPM)

COIL MUST BE ORDERED SEPARATELY (REFER TO EC-19A-X-Y-Z)

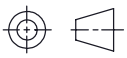
Z	PORT SIZE PORTS G(A1,B1)	
G02	G 1/4"(Metric)	
N02	NPT 1/4"(U.S. Units)	
S04	SAE 4	

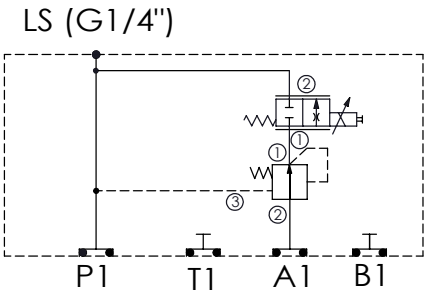
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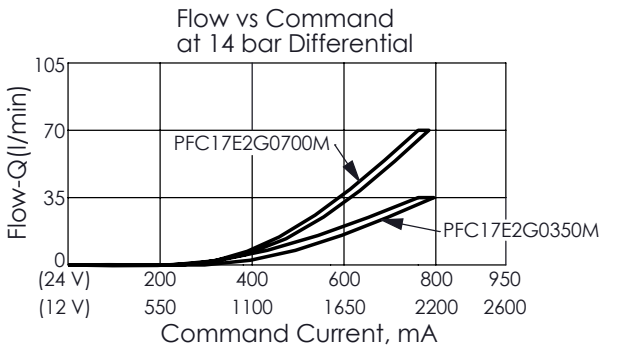
Ordering Code:	MK03EPX-X-Y-Z 03
Stack Height : 63.0mm	



UNIT:mm







Y	SELECTION FOR FLOW CONTROL VALVE (REFER TO PFC17E-X-Y-Z)
17E2	CAVITY ONLY(WITHOUT VALVE)
PFC35	PFC17E2G0350M(35LPM)
PFC70	PFC17E2G0700M(70LPM)

COIL MUST BE ORDERED SEPARATELY
(REFER TO EC-23C-X-Y-Z)

TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Ductile Iron Body Pressure Rating:	350 bar
Rated flow:	40 l/min

Cartridge Valve:
Refer to LP11A-X-Y-Z
PFC17E-X-Y-Z

* Refer to Motus Cartridge Valves Catalog.

Aluminum	0.63 kg(WITHOUT VALVES) 1.2 kg(INCLUDE VALVES ,WITHOUT COIL)

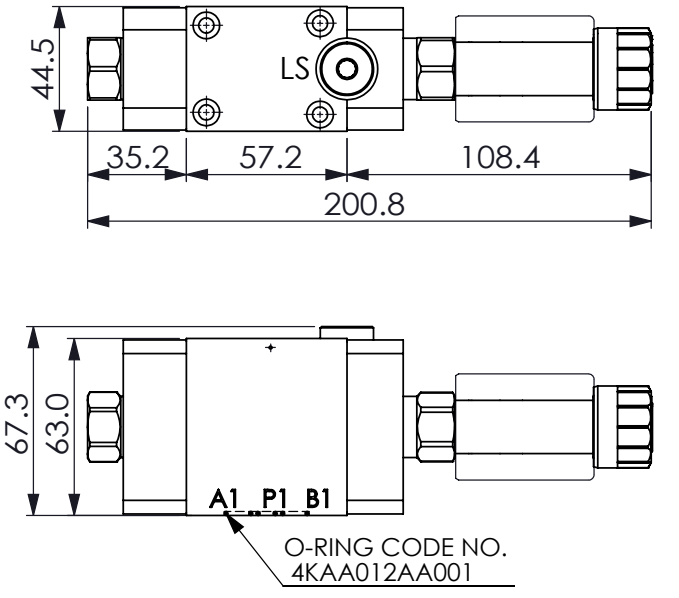
* If you need the special specification.
Please contact us.

X	SELECTION FOR COMPENSATOR
11A3	CAVITY ONLY(WITHOUT VALVE)
LP140	LP11A30140N(60LPM,14.0bar)

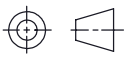
Please refer to the list price of cartridge program.

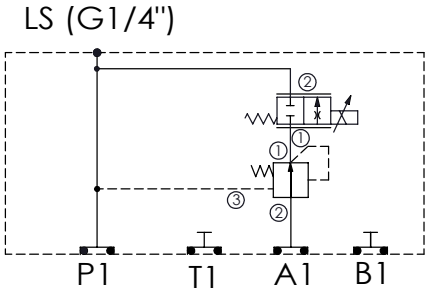
Z	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	

Ordering Code:	MK03EPX-X-Y-Z 03
Stack Height : 63.0mm	



UNIT:mm





TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Ductile Iron Body Pressure Rating:	350 bar
Rated flow:	40 l/min

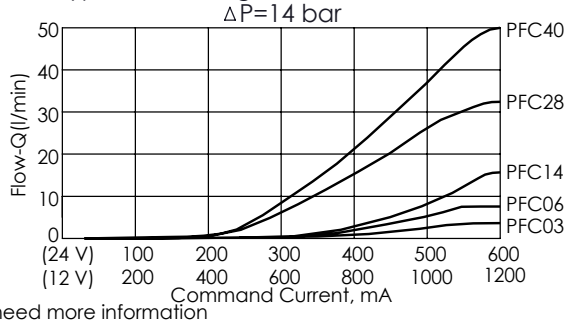
Cartridge Valve:
Refer to LP11A-X-Y-Z
PFC13A-X-Y-Z

* Refer to Motus Cartridge Valves Catalog.

Aluminum	0.63 kg(WITHOUT VALVES) 1.2 kg(INCLUDE VALVES ,WITHOUT COIL)

* If you need the special specification. Please contact us.

Typical Metering Performance (①→②)
ΔP=14 bar



If you need more information
Please contact our sales department

Y	SELECTION FOR FLOW CONTROL VALVE (REFER TO PFC13A-X-Y-Z)
13A2	CAVITY ONLY(WITHOUT VALVE)
PFC03	PFC13A2D0030N(0.3~3LPM)
PFC06	PFC13A2D0060N(0.4~6LPM)
PFC14	PFC13A2D0140N(0.6~14LPM)
PFC28	PFC13A2D0280N(0.8~28LPM)
PFC40	PFC13A2D0400N(1.0~40LPM)
COIL MUST BE ORDERED SEPARATELY (REFER TO EC-19A-X-Y-Z)	

X	SELECTION FOR COMPENSATOR
11A3	CAVITY ONLY(WITHOUT VALVE)
LP140	LP11A30140N(60LPM,14.0bar)

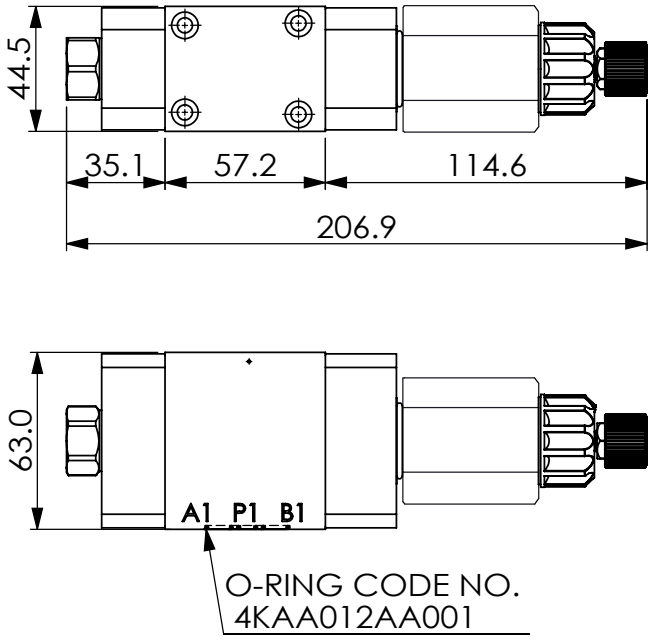
Please refer to the list price of cartridge program.

Z	BODY MATERIAL	
A	HIGH-STRENGTH ALUMINUM	

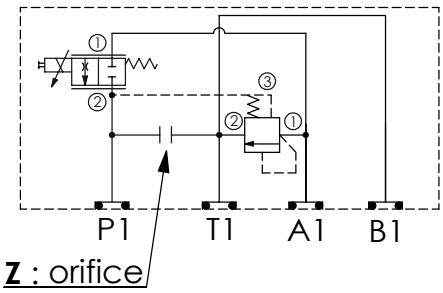
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Ordering Code:	MK03ERX-X-Y-A03-Z
	MK03ERX-X-Y-S03-Z

Stack Height : 63.0mm



UNIT:mm



TECHNICAL DATA

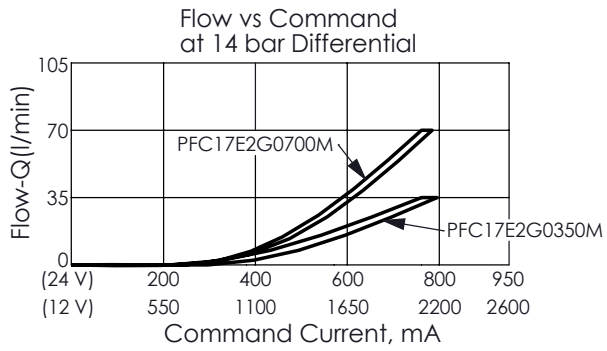
Aluminum(A03) Body Pressure Rating:	210 bar
Ductile Iron(S03) Body Pressure Rating:	350 bar
Rated flow:	40 l/min

Cartridge Valve:
Refer to LR11A-X-Y-Z
PFC17E-X-Y-Z

* Refer to Motus Cartridge Valves Catalog.

Aluminum	0.63 kg(WITHOUT VALVES) 1.2 kg(INCLUDE VALVES ,WITHOUT COIL)
Ductile Iron	1.83 kg(WITHOUT VALVES) 2.4 kg(INCLUDE VALVES ,WITHOUT COIL)

* If you need the special specification. Please contact us.



Y	SELECTION FOR FLOW CONTROL VALVE (REFER TO PFC17E-X-Y-Z)
17E2	CAVITY ONLY(WITHOUT VALVE)
PFC35	PFC17E2G0350M(35LPM)
PFC70	PFC17E2G0700M(70LPM)

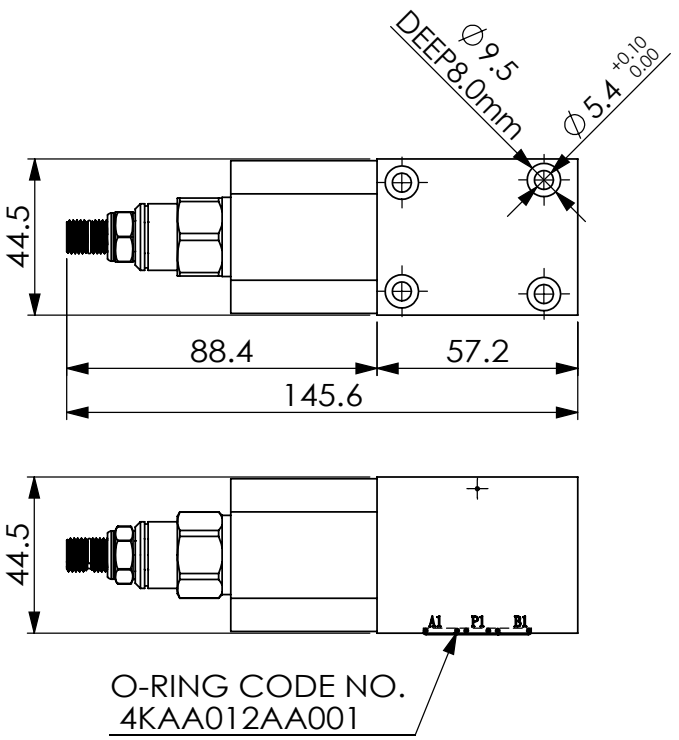
COIL MUST BE ORDERED SEPARATELY
(REFER TO EC-23C-X-Y-Z)

X	SELECTION FOR COMPENSATOR
11A3	CAVITY ONLY(WITHOUT VALVE)
LR140	LR11A30140N(60LPM,14.0bar)

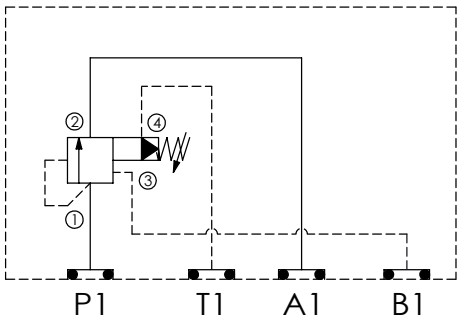
Please refer to the list price of cartridge program.

Z	ORIFICE DIAMETER (mm)	
	without orifice	
05	∅ 0.5 mm (M5xP0.8 Plug)	
07	∅ 0.7 mm (M5xP0.8 Plug)	

Ordering Code:	MK03RPA-X-Y-Z01
Stack Height : 44.5mm	



UNIT:mm



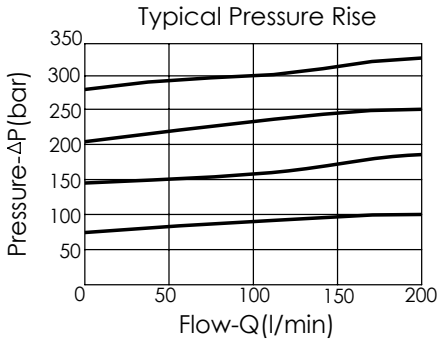
TECHNICAL DATA

Aluminum Body Pressure Rating:	210 bar
Ductile Iron Body Pressure Rating:	350 bar
Rated flow:	40 l/min

Cartridge Valve:
Refer to RV21A-X-Y-Z
* Refer to **Motus** Cartridge Valve Catalog.

Aluminum	0.41 kg(WITHOUT VALVE) 0.61 kg(INCLUDE VALVE)

* If you need the special specification. Please contact us.



X	SELECTION FOR A PORT CONTROL
21A4	CAVITY ONLY(WITHOUT VALVE)
RV0A	RV21A40AL (60LPM , 7-210bar)
RV0B	RV21A40BL (60LPM , 3.5-105bar)

Please refer to the list price of cartridge program.

Y	SELECTION FOR B PORT CONTROL
N	WITHOUT PORT

Z	BODY MATERIAL	
A	**HIGH-STRENGTH ALUMINUM**	

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